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1931 Seeds

U.S. DEPARTMENT OF AGRICULTURE

FEB 2 1931

U.S. Department of Agriculture

~~THE INLAND~~

~~SEED CO.~~

TRADE-MARK

REGISTERED

120-122 South Howard Street
Spokane, Washington
Vegetable Seed Trials

1931--THE INLAND SEED CO.--1931

Back Cover: *The First—Progress!*

Last August when corn was very cheap, I made several trips thru the public markets and the Farmers' Market. One thing that struck me forcibly was the fact that Giant Golden Bantam Corn brought more money than any other corn. This impressed me so much that I decided to show everyone. Therefore, I had our photographer, on the 13th day of August, step into Westlake's Market and take a picture. When this was developed, I thought what a good story it would tell if put on our catalog cover. Then I fell into a retrospective mood. This is what came to me:

**That
We
Were
the
First:**

- to introduce the Giant Golden Bantam Corn;
- to bring in the Improved Earliana and Bonnie Best Tomatoes;
- the first Seed House in the Northwest to bring in Bermuda Onion Plants from Texas;
- the very first to bring in a carload (3,600,000) Onion Plants in a single shipment. In fact, this is more than any other Seed House in the Northwest will use in 1931;
- to bring in a car of Pop Corn;
- to bring in a car of Incubators;
- to bring in a car of Onion Sets;
- to try for garden seed certification;
- to bring in Canadian grown Grimm Alfalfa.

These are but a few of the first things in which The Inland Seed Company pioneered. All this is PROGRESS. Our progress is built on care, quality, and service. These attributes have held old friends and gained new ones. This catalog is the only contact between many friends and ourselves. If you are not now one of our customers, we assure you that we will appreciate your trade and do our best to give you prompt service and right treatment.

HENRY C. ANDERSON, *President.*

FREE INFORMATION BUREAU

We are glad to record that our customers have used this freely, and we wish to state that it has been a source of great pleasure and profit to ourselves, as frequently we have been obliged to investigate before answering, and this fact accounts for the delay of a few days in answering some inquiries. This has been established for the use of our customers and the more it is used the better we are pleased. It is entirely free.

WHEN YOU ORDER

Write name and address plainly.
Give postoffice and shipping point.

Include prepay charges if necessary.

Figure postage correctly.

All orders strictly cash.

Plants not sent C. O. D.

INSURANCE

Up to \$5.00.....	3c
From \$5.00 to \$25.00.....	5c
From \$25.00 to \$50.00.....	10c
From \$50.00 to \$100.00.....	25c

If you want your order insured add at above rates to your remittance. We are not responsible for goods after being delivered to P. O. or general carrier.

The Inland Seed Company's 1931 Seed Catalogue 1931

Seeds

Native Vegetables Are Most Important

In the American vegetable garden eight principal food products had their origin in the Indian crops existing here before the advent of the white man. These include beans, corn, peppers, pumpkins, squash, tomato, potato and sweet potato. Vegetables of Old World origin are far more numerous. The United States Department of Agriculture lists 24 of importance, cucumbers, eggplant, muskmelon, watermelon, okra, asparagus, beets, Brussels sprouts, cabbage, carrots, cauliflower, celery, kale and collard, kohlrabi, leek, lettuce, onion, parsley, parsnip, peas, radish, salsify, spinach and turnip. But the value of the crop of the eight native vegetables is considerably greater than the 24 of foreign origin.

ARTICHOKE TUBERS

Planted and cultivated the same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, and great productiveness. One lb., postpaid, 20c; at purchaser's expense, 50 lbs., \$2.00; 100 lbs., \$3.50.

ASPARAGUS



CULTURE — Sow in early spring in rows; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with six inches of well rotted stable manure, then six inches of soil somewhat firmer, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about four inches below the surface.

PALMETTO — This variety is very desirable on account of its earliness, bright green color, presenting an attractive appearance, excellent flavor and productiveness.

MARY WASHINGTON — This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust free. The shoots are thick and heavy. They are long and straight

with closely folded tips. The color is rich, dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor.

POSTPAID

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.		
Palmetto	\$0.05	\$0.15	\$0.25	\$0.45	\$0.75	\$1.25
M. Washington ..	.10	.25	.35	.60	1.00	1.75

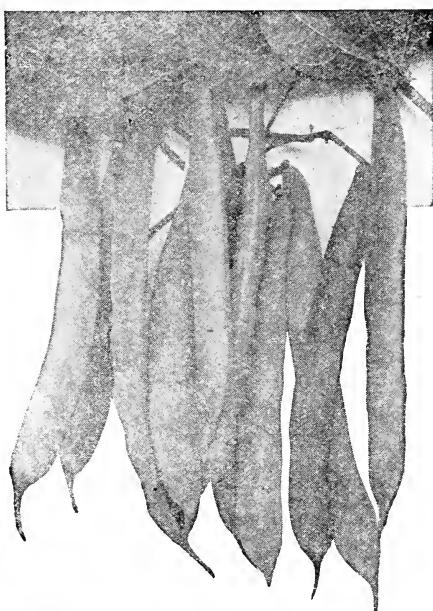
Beans

All Our Beans Are Hand Picked

It is a fact worth emphasizing that in order to secure the best results from seeds that the seeds themselves should be fully matured, well developed, of good germination, and capable of strong, vigorous growth. In order to secure these very essential and necessary qualities, we are having our wax and green podded bush varieties grown in Washington and Idaho. In localities especially suited to their growth and culture.

CULTURE — Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, in rows 18 inches apart. For field culture, make the rows 3 or 3 1/2 feet apart, and cover with two inches mellow soil.

Bush, Wax Podded



Golden Wax

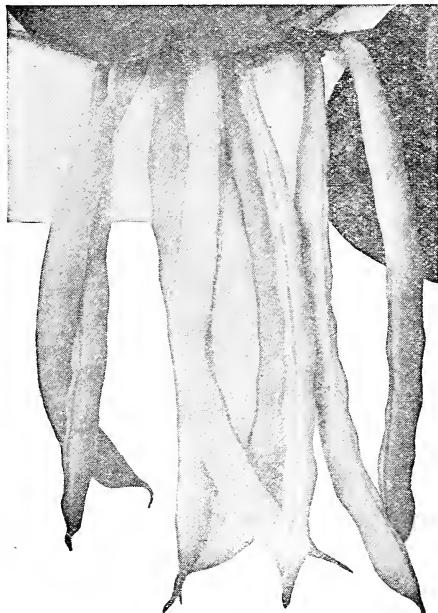
GOLDEN WAX IMPROVED — This is one of the earliest and best dwarf sorts for the

home market and private gardens. The plants are erect, compact, and very productive. The pods are of medium length, four and one-half to five inches, nearly straight, broad, flat golden yellow, very fleshy and waxlike. Seed medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color on this and all partially colored beans will be affected greatly by conditions of soil and ripening.

BLACK WAX, PROLIFIC—This improved strain of Black Wax we offer under this name is exceptionally productive, very hardy, reliable and of the best quality. The pods are of medium length four and one-fourth to four and one-half inches, borne well up from the ground, curved cylindrical and fleshy. They are of a clear, light golden yellow color and remain a long time in condition for use as snaps. Seed small, oblong, jet black.

Bush, Green Podded

REFUGEE, EXTRA EARLY—A very early, green-podded variety, with medium-sized green, fleshy pods; seed drab, freely spotted with dark purple. The vines are smaller and of more upright growth, and leaves a little larger than the late Refugee. The pods are round and make an attractive appearance when shipped to market. Their color is lighter than most of the green beans.



Green Stringless

STRINGLESS, GREEN—Very desirable dwarf green podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, and remain crisp and tender long. Seed medium size and length, yellowish brown.

POSTPAID

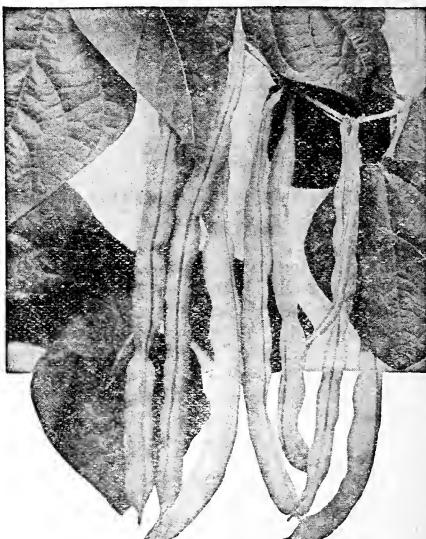
	1 lb.	5 lbs.	10 lbs.
Bush Beans	\$0.35	\$1.60	\$3.00

NOT PREPAID

	25 lbs.	50 lbs.	100 lbs.
Bush Beans	\$6.25	\$11.25	\$20.00

Pole, Green Podded

Although Pole Beans require considerable care and labor, they are, when properly grown, usually of longer bearing period than the Dwarf sorts and are generally more productive.



Kentucky Wonder

KENTUCKY WONDER—Also known as Old Homestead. We believe this variety is the most practically useful of the green podded pole beans suitable for use as snaps. It is early, very prolific, with showy pods which are of most excellent quality. The vines are vigorous, climbing well, bearing pods in large clusters. The pods are medium light green, very long, often reaching 9 or 10 inches, curved and twisted, nearly round and very crisp when young, becoming very irregular and spongy as the beans ripen. Seed long, oval, slightly flattened, dun colored. One of the very best early pole snap beans for the home garden or market.

LAZY WIFE—The pods are produced in large clusters in great abundance and are from four to five inches in length. Dark green, rather flat but broad, quite thick, fleshy and entirely stringless, retaining their brittleness until fully developed; of unusually rich flavor.

Pole, Wax Podded

KENTUCKY WONDER—Yellow podded, bears a large quantity of rich, golden-yellow pods from the time the plant is about half-grown until it is killed by frost in the fall. The plant makes a quick, healthy growth, and is exceedingly productive, bearing large pods, which are thick, meaty, stringless; very tender, and have a fine flavor when cooked. This variety is very popular, both for the home garden and for market.

POSTPAID

	1 lb.	5 lbs.	10 lbs.
Pole varieties	\$0.40	\$1.75	\$3.25
K. W. Wax.....	.45	2.00	3.75

NOT PREPAID

	25 lbs.	50 lbs.	100 lbs.
Pole varieties	\$7.00	\$12.50	\$22.50
K. W. Wax.....	7.50	15.00	27.50

Limas, Bush

BURPEE'S—This is a little the earliest maturing of the large seeded Limas. The plants are vigorous and productive. The pods are medium green, very large, about five inches long, and usually contain four or five beans, which are thick and large, and usually show a greenish white tinge.

HENDERSON'S—A dwarf form of the small white Limas, valuable because of its extreme earliness, hardiness and productiveness. The pods are medium dark green, short, about $2\frac{1}{4}$ inches, flat and contain two to four beans which are of excellent quality either green-shelled or dry.

Limas, Pole

EARLY JERSEY—This variety is one of the earliest of the pole Limas. Pods are four inches in length and contain three and four large beans each. It is specially recommended for this northern latitude, as it gives much better results than can be obtained from any of the other varieties on account of its earliness and productiveness.

POSTPAID

	1 lb.	5 lbs.	10 lbs.
All Lima Beans	\$0.45	\$2.00	\$3.50

NOT PREPAID

	25 lbs.	50 lbs.	100 lbs.
All Lima Beans	\$7.00	\$13.75	\$25.00

BROAD WINDSOR—(*Vicia Faba*)—Sometimes called a tree bean because of its upright growth, bearing its pods at the axil of every leaf. It is sometimes called Horse Bean. Cooked as a shell bean it is very good for table use. Lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50.

Ornamental

SCARLET RUNNER—Ornamental and useful. The vine is graceful, flowers are of a brilliant scarlet, and the beans are of an excellent quality, either when shelled or in a dry state. Oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; $\frac{1}{2}$ lb., 35c; 1 lb., 60c, postpaid; at purchaser's expense: 1 lb., 50c.

Field

NAVY—Write for prices, stating quantity wanted.

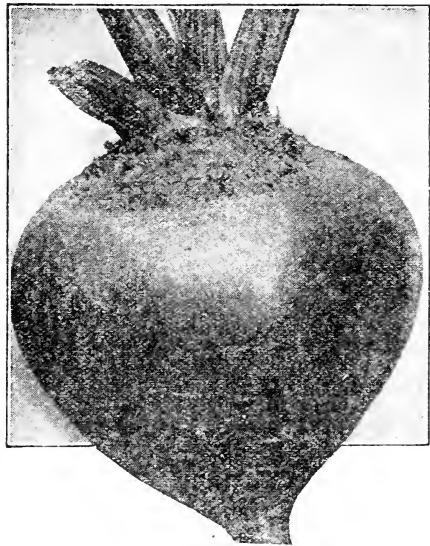
Beets

CULTURE—The soil should be deep, rich and mellow, plowed deep and harrowed until very fine. Drop about one inch deep in drills 12 to 18 inches apart, and when well up thin to four or six inches. The tops of the young beets can be used for greens.

DETROIT DARK RED—The tops are small and upright in growth. The leaves are dark green, shaded with red. The roots are medium sized, globular or nearly round, very smooth and of dark blood red color. The flesh is deep vermillion red, zoned with a lighter shade of the same color. The variety is very desirable for bunching. Dark Red is the most uniform in shape and size and the most attractive in color.

BLOOD TURNIP, EDMANDS—An extra selected stock of Blood Turnip. The roots are dark red and nearly round or slightly flattened. The flesh is deep red, zoned with lighter shade, sweet, crisp and tender. This is an excellent market and home garden sort for summer and autumn use.

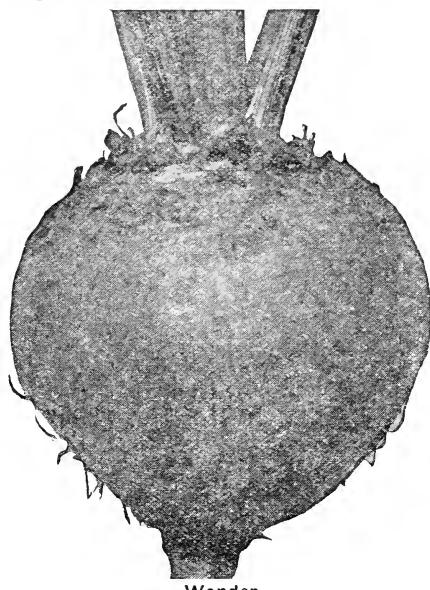
EGYPTIAN, CROSBY'S—One of the earliest and best strains of Beets. The roots run uniform in size and shape, have small tops, just right for early bunching. The flesh is deep red,



Detroit

sweet, tender, and of excellent quality. It develops its fine turnip shape in the early stages of its growth and on that account is preferred to most other kinds, which take a much longer time to grow to a proper maturity.

HALF LONG BLOOD—An old and popular variety, especially desirable for fall and winter use, as it does not become woody, and keeps better than the turnip shaped varieties. The root is smooth and handsome and the flesh is a bright red and of good quality.



Wonder

WONDER—The earliest of any Beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling pur-

poses. In flavor it can not be beat. It is tender, sweet and juicy, retaining its crispness throughout the season. The foliage is of a very dark color, is very small, permitting close planting.

POSTPAID

All Table Beets

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.55	\$0.85	\$3.50



Swiss Chard

SWISS CHARD OR SEA KALE—This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach.

Swiss Chard

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.00

Mangel Wurtzels

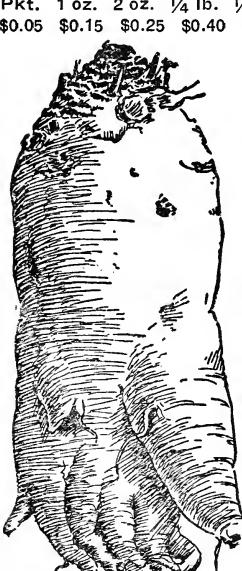
The great importance of growing Mangel Wurtzel and Sugar Beets for stock is becoming more and more apparent to the progressive farmer, on account of their immense yield, and their fine feeding qualities. In order to secure seed from the very best types we are contracting with European and American growers that are looked upon by their competitors as real experts. This seed costs us more than seed from the ordinary strains grown by ordinary growers and is worth more.

DANISH SLUDSTRUP—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all mangels, having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

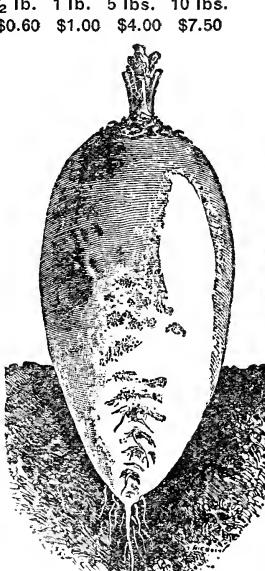
GIANT HALF SUGAR—Is very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best mangels, and twice as much per acre as the rich sugar beet seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, oval in form, very smooth, with few rootlets; tops small.

GOLDEN TANKARD (Improved)—A special feature is the rich, deep yellow color of the flesh, differing in this respect from other Mangels, surpassing them in milk-producing qualities. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields an enormous bulk on good land, and can be grown closely in rows.

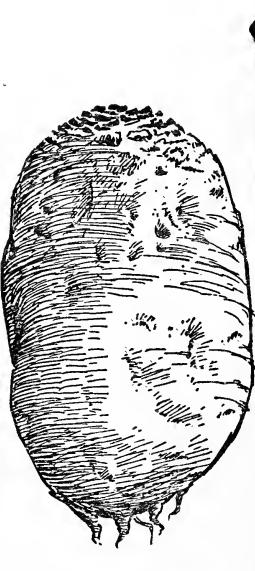
KLEIN WANZLEBEN—This variety has proved to be a very valuable sort, on account of its richness in saccharine matter, thus dem-



"Sludstrup"



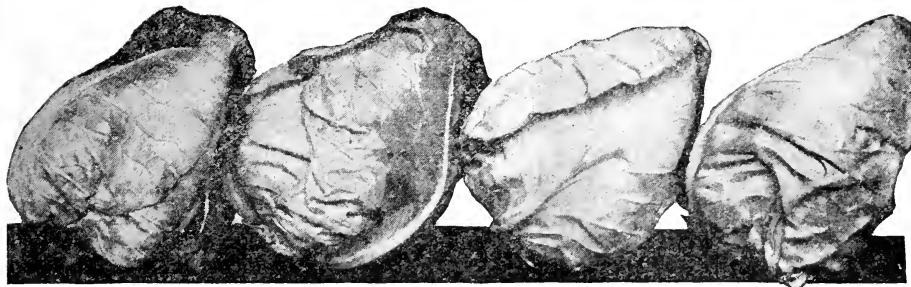
Giant Half Sugar



Golden Tankard



Mammoth Long Red



Early Jersey Wakefield

onstrating its superiority for feeding purposes. Roots rather long, slender growing into the ground. A great yielder.

MAMMOTH LONG RED—This is the heaviest cropping and largest of all mangels. The roots grow from one-half to two-thirds above the surface and are frequently two or more feet in length by six inches in diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose-pink.

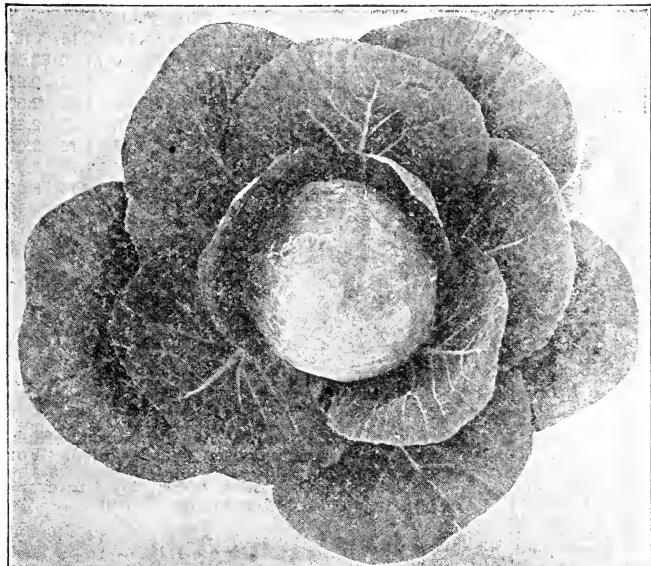
POSTPAID

All Mangels

1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.15	\$0.25	\$0.35	\$0.50	\$2.50	\$4.50

Brussels Sprouts

Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00.



Golden Acre

Cabbage

Cabbage is recognized as a crop that usually can be depended upon for good returns. The cost of seed per acre is very small, but the quality of seed you obtain is all important. Do not sacrifice quality. Obtain the best. Our seed is secured from the most reliable growers, gives best results, and better satisfaction than the ordinary strain of cabbage.

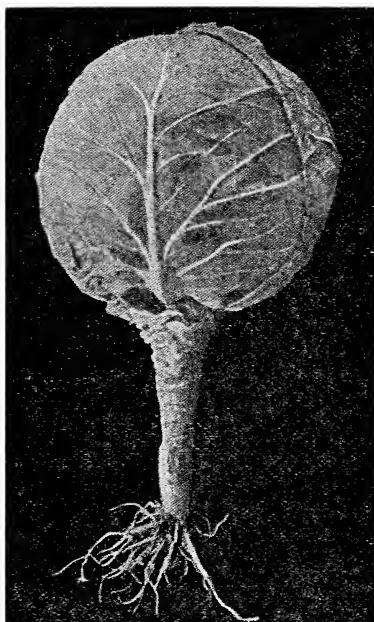
CULTURE—For early cabbages sow the seed in a hot-bed in March or April, covering the seed from $\frac{1}{4}$ to $\frac{1}{2}$ an inch deep and, when big enough, transplant to another bed. As soon as the ground is in good condition transplant, outside, in rows 2 feet apart and 15 to 20 inches in the row.

First Early

EARLY JERSEY WAKEFIELD—The earliest and hardiest heading of extra early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit make it the best sort for very early setting.

New Golden Acre

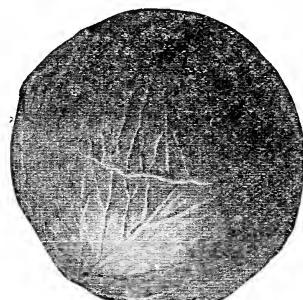
GOLDEN ACRE—This is of recent introduction but has been tested sufficiently so that its real worth has been fully demonstrated. It is similar to the Copenhagen Market, but is a week or ten days earlier, and smaller, in fact ideal in size for marketing. The heads are very uniform, round, firm and of superior quality. It matures nearly all at the same time which is of great advantage to the market gardener. On account of its hardiness it will stand in the field a long while before bursting and is a most excellent shipper.



Copenhagen Market

CLOVER LEAF COPENHAGEN MARKET—This superb new cabbage is undoubtedly without a rival as the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time. The heads average about 10 pounds, are very solid, with small core and of fine quality. It matures a little later than the Early Jersey Wakefield, and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level.

Late



Danish Ball Head

CLOVER LEAF HOLLAND OR DANISH BALL HEAD—Short stemmed. Most remarkable late cabbage yet produced. This is one of the hardiest cabbages in cultivation, and endures both frost and drought that would destroy other varieties. The plants are hardy and compact; leaves very smooth, but thick; heads of medium size, round and very solid, being the hardiest heading cabbage and of the very best quality. Matures quite late, keeps well and is considered by many the best cabbage to keep until spring.



Flat Dutch

DUTCH, LATE, FLAT—A low-growing variety; heads large, bluish green, round, solid, broad and flat on top; an excellent fall and winter variety; a good keeper, and a sure header.

DRUMHEAD SAVOY—The best variety of Savoy or crumpled leaf cabbage. The leaf is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid.

ROCK RED—Best red sort, much used for pickling.

Chinese or Celery Cabbage

The most essential requirement for successfully raising Chinese cabbage is cool weather. Where the summers are warm, sowing must be delayed until early August.

PE-TSAI—The leaves when young are crimped, of light green color. The plant as it matures becomes more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white.

POSTPAID

Cabbage.	Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
Copenhagen		\$0.05	\$0.25	\$0.45	\$0.80	\$1.50
E. J. Wakefield	.05	.25	.45	.75	1.25	2.25
Ball Head	.05	.25	.45	.80	1.50	2.50
Flat Dutch	.05	.25	.45	.75	1.25	2.25
Savoy	.05	.30	.60	1.00	1.75	3.00
Rock Red	.05	.30	.60	1.00	1.75	3.00
Golden Acre	.10	.50	.90	1.50	2.75	5.00
Pe-Tsai	.10	.40	.70	1.25	2.25	4.00

Soil Disinfectant

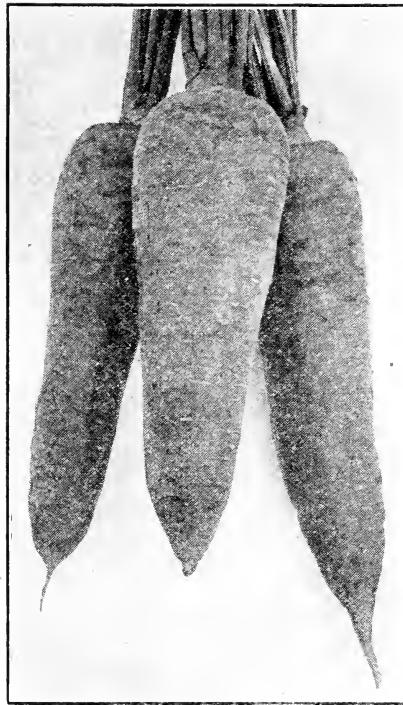
The following is highly recommended to control black leg and damping off on cabbage plants: Two pounds of Formaldehyde to 50 gallons of water. One gallon of solution to square yard two weeks before planting.

Carrots

CULTURE—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops sow any time until the middle of June.

Carrots—Table

CHANTENAY—Early, scarlet color, stump rooted, broad, thick shoulder, heavy cropper. Fine quality. In shape and appearance it takes



Danvers Half Long

a place between the Oxheart and the Danvers Half Long.

DANVERS HALF-LONG, IMPROVED—A first-class carrot for all soils. The root is of a rich, dark orange color and grows very smooth and handsome. Very productive, producing as much tonnage to the acre as the longer field sorts, and is much easier harvested.

LONG ORANGE, IMPROVED—A deep orange colored variety. Heavy cropper. Especially adapted for light, deep soils where it can be easily dug, as the roots penetrate farther into the soil than other varieties. Grows fairly thick and entirely under ground.

NANTES OR CORELESS—This is frequently called and sold as coreless. This however is not correct as it is not entirely coreless, but much nearer to it than any other variety. The flesh is red and very sweet, a stump rooted type growing about six inches in length. Leaves are fine, roots smooth and is highly recommended for home gardens.

OXHEART OR GUERANDE—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows more rapidly and the root attains a weight of more than a pound. It is tender and of good flavor, and a variety that we can recommend to all good market gardeners.

SCARLET HORN, EARLY—A very early variety. Recommended for the very early market and family garden. Texture fine; very delicate in flavor.

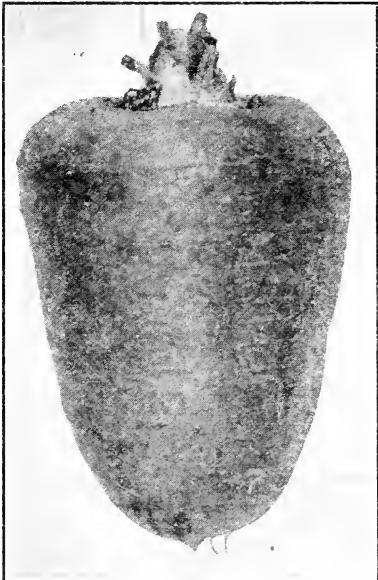
POSTPAID

Table Carrots

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.55	\$0.90	\$4.25
						\$7.50

Nantes and Scarlet Horn

\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.50
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Oxheart

Carrots—Stock

WHITE BELGIAN—Grows one-third out of the ground. Root pure white, green above the ground. The flesh is of deep yellow color, tender and of excellent flavor.

YELLOW GIANT OR SAN JOSE CHAMPION—This carrot is a half-long variety, with an immense broad shoulder. The roots penetrate less than one-half the depth into the ground. Color a bright yellow.

POSTPAID

Stock Carrots

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.55	\$0.90	\$4.00
						\$7.50

CHICORY—Witloof or French Endive: This variety produces leaves with wide ribs or leaf stalks which form a cluster or head.

Pkt., 10c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., 1.60; lb., \$3.00.
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Celery

Finely blanched Celery is one of the most popular and attractive vegetables for the table during fall and winter. Would advise making two plantings where wanted for either home use or market. For the earliest crop the seed should be sown in hotbeds during February or March, and the young plants set in rich soil as soon as large enough, after the trees start out in leaf. For the fall or main crop seed may be sown in the open ground as early in the spring as the soil can be worked in good condition, and the plants should be set in the rows during July.

CULTURE—Sow in light, rich soil, in shallow drills, and cover the seed lightly with finely sifted mold. When the plants are 5 to 6 inches high transplant to rows 3 to 4 feet apart, according to the variety, allowing 8 inches between the

plants in the row. Cultivate freely and earth up to blanch the stems, pressing the soil firmly around the plant almost to the top, care being taken not to cover the tops of the center shoots.

Early

WHITE PLUME—A very popular variety on account of its naturally white leaf stalks, which require less blanching than the other kinds. It is early, a fine market sort and the variety mostly used by gardeners.

POSTPAID

	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
W. Plume	\$0.05	\$0.35	\$0.60	\$1.00	\$1.75
G. S. Blanching .....	.10	.60	1.00	1.75	3.00
Celeriac .....	.10	.35	.60	1.00	1.75
					3.00

CAULIFLOWER

— Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it. Any one will be reasonably sure of success with this most desirable vegetable if the cultural directions given below are carefully followed.

The Cauliflower is highly esteemed for the mild, delicate flavor and extreme tenderness of the solid white heads.

CULTURE — The soil for cauliflower should be like that for cabbage, but is better if made richer than is ordinarily used for that crop. It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sowing should

be so regulated as to bring it to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. After the heads begin to form, draw the leaves over and pin or tie them together to protect the heads from the sun and keep them white.

CLOVER LEAF SNOWBALL (Best imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late.

DANISH GIANT OR DRY WEATHER—(Best Imported Stock)—Large leaved, with pure white compact heads. It is truly a first-class cauliflower and is specially adapted to dry locations and to resisting the effects of drought. Two weeks later than the Snowball, when planted at same time.

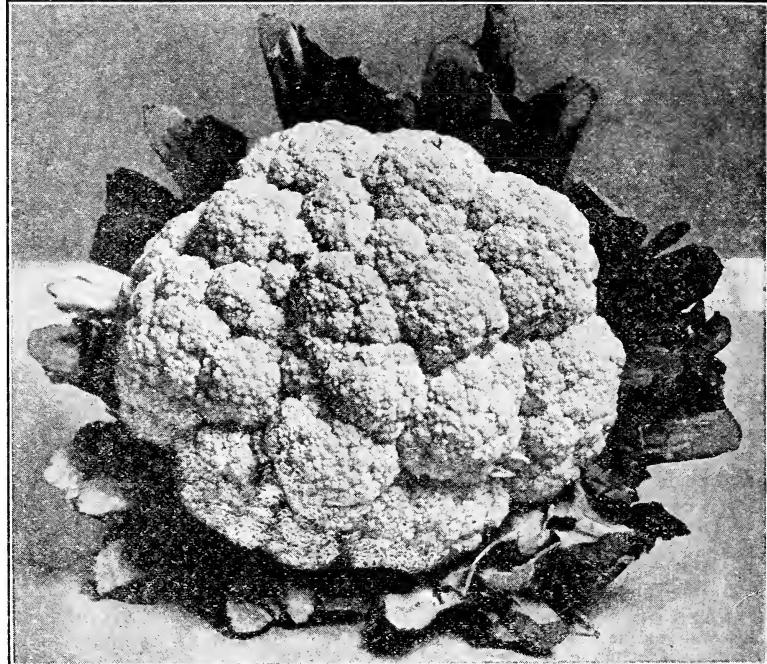
SIX WEEKS—This variety, as its name implies, is a very early variety and one that has been thoroughly tested by the originator and

Late



GOLDEN SELF-BLANCHING—It is of a rich golden tint when ready for the table; very handsome and of excellent quality.

CELERIAC OR TURNIP-ROOTED—Grown exclusively for its roots, which are turnip-shaped, very smooth, tender and narrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad.



Snowball

grower. This has been placed upon the market by a well-known and reliable Holland grower and we are assured that it is earlier than the Snowball and equally as good. It is therefore a variety that should appeal to cauliflower growers.

POSTPAID

	1/2 oz.	1 oz.	2 oz.	4 oz.
Snowball	\$0.10	\$1.25	\$2.25	\$4.00
Dryweather .....	.10	1.50	2.75	5.00
Six Weeks .....	.10	1.50	2.75	5.00
				9.00

Antrol for ants.

Snarol for cutworms.

See Page 82.

Corn—Sweet

CULTURE—Sweet corn should not be planted deeper than one to one and a half inches, as it is liable to rot in the ground, especially if the ground has not become warm. Hoe often, drawing the earth against the stems and break off the side shoots.

First Early

WHITE CORY EXTRA EARLY

One of the earliest varieties. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains.

EARLY MINNESOTA

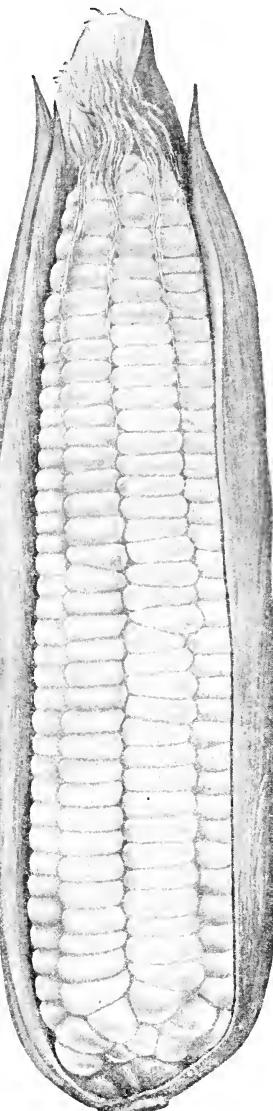
This deservedly popular variety is one of the best second early sorts for the market and the home garden. The stalks are about six feet high, bearing one or two ears well covered with husks. The ears are about eight inches long, eight rowed; kernels very broad white, sweet and tender, not shrinking much in drying.

GOLDEN BANTAM

Of extreme hardness, this can be planted earlier than any other sweet corn, and will then produce the earliest supply of ears for the table. Stalks grow from $3\frac{1}{2}$ to 4 feet in height and produce one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden-yellow grains, extending to the rounded tip. The flavor is distinct, exceptionally rich and sugary, the sweetest of all 'Sugar Corn.'

HOWLING MOB

—This variety has become very popular on account of its earliness, and its possessing the sweet flavor of the later varieties. The stalks are of strong, vigorous growth, four and one-half to five feet in height, have abundant foliage and generally produce two fine ears to each stalk. The ears measure



Golden Bantam

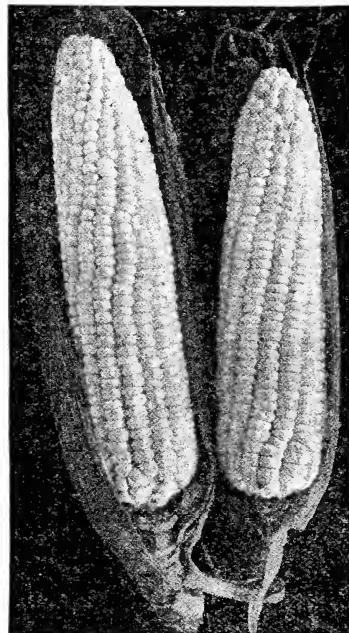
seven to nine inches in length, with twelve or fourteen rows of good-sized pearly-white grains.

PEEP O' DAY—For earliness, flavor, sweet-ness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

Medium Early

BANTAM EVERGREEN—This variety is a cross between Gold Bantam and Stowell's Evergreen, maturing about ten days later than Golden Bantam, and while possessing the bright golden color of the Golden Bantam it retains the fine flavor of Stowell's Evergreen. As the ears are about one-third larger than Golden Bantam it is a most excellent variety to plant for a second early crop.

COUNTRY GENTLEMAN—A favorite second early or main-crop variety with all private gardeners for its tenderness, delicacy, small, deep grains and sweetness. The ears are of fair size, frequently three or four to the stalk.



Early Evergreen

EARLY EVERGREEN—This fine variety yields large, handsome, ten and twelve rowed ears, averaging about nine inches in length. It is very sweet, has a fine flavor and remains tender a remarkably long time.



GIANT GOLDEN BANTAM—As is well known Golden Bantam Corn is the result of a cross of

two other varieties, and has been the most popular corn on the market up to the present time. By careful selection, and cross breeding, all the good traits of Golden Bantam has been retained, and in addition a larger ear has been produced, therefore the Giant Golden Bantam corn has the color, flavor and productiveness of the regular Golden Bantam combined with much larger ears, making it the most popular variety of yellow sweet corn. It comes on the market about a week later than the Golden Bantam.

Late

STOWELL'S EVERGREEN—The standard main crop variety, much used for the home garden, market or canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. The ears are about seven to eight inches long, fourteen to twenty rowed, with very white grain. The stalks are about seven and one-half feet high. The best known and most largely planted of all the late varieties.

POSTPAID

	1 Lb.	5 Lbs.	10 Lbs.
Sweet Corn not specially quoted	\$0.30	\$1.40	\$2.50

B. Evergreen, G. G. Bantam, P. O. Day	.35	1.65	3.00
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NOT PREPAID

25 Lbs.	50 Lbs.	100 Lbs.
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Sweet Corn not specially quoted	\$5.00	\$9.25	\$17.50
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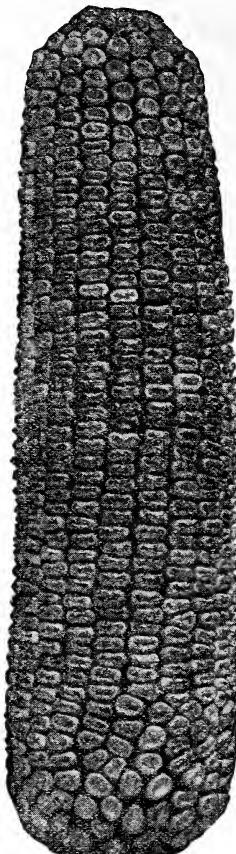
B. Evergreen, G. G. Bantam, P. O. Day	6.25	11.00	20.00
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Corn—Field

Corn growing is becoming more and more a staple product in the Northwest and experiments have shown that on carefully prepared fertile soil the difference in seed has made a difference in the yield of double the bushels per acre. Quotations on field corn not guaranteed, and is subject to change.

Dent, Yellow

MINNESOTA No. 13—The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for Northwestern planting are: Its earliness, its enormous productiveness, its adaptability to a great variety of soils and climates. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color. The stalks grow to a height of seven feet and being leafy make excellent and very nutritious fodder. A variety of corn which shows such valuable characteristics is an acquisition on any farm, especially for planting in the Northwest where early frosts are common.



Yellow Dent

Dent, White

SILVER KING NO. 7—This variety has given almost universal satisfaction to dairy men that wanted a reliable corn for silo purposes.

It is an early variety, therefore is valuable if the dairyman or farmer wants matured ears.

It is of medium size, deep grained and a heavy yielder.

Please note that the prices made on field corn are estimates only and may be changed. If wanting quantity, please write stating variety and quantity wanted, otherwise full value will be forwarded for the full amount of money received.

POSTPAID

	1 lb.	5 lbs.	10 lbs.
All Field Corn	\$0.20	\$0.70	\$1.20

NOT PREPAID

25 Lbs.	50 Lbs.	100 Lbs.
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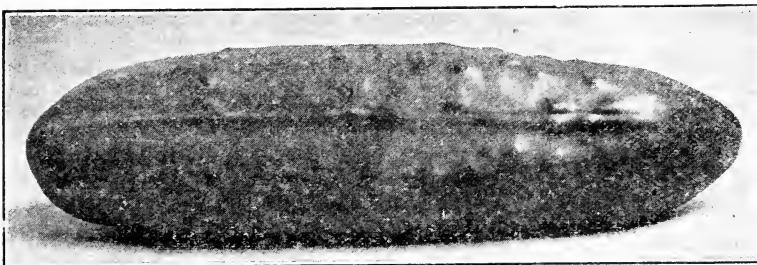
All Field Corn	\$2.25	\$3.75	6.50
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Pop

WHITE RICE—The best corn for popping and for the general market; early, white pointed kernels. 1 lb., 25c, postage paid. At purchaser's expense, 10 lbs., \$1.50.

BROODERS

Electric, Coal and Oil



Long Green

Cress

PEPPER GRASS (Curled)—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants. As they are milder and more tender when young, the seed should be sown at intervals of 10 to 15 days, making the first sowing as soon as the ground can be prepared.

WATER—A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seed thinly along the banks of any shallow stream early in the spring.

POSTPAID

Pkt.	1 oz.	2 oz.	1/4 lb.
P. Grass	\$0.05	\$0.20	\$0.35
W. Cress .....	.10	.40	.75

Cucumbers

This is one of the vegetables that can be grown to perfection by any one who can control a few square yards of reasonably good soil that is fully exposed to the sun. Every family should be supplied from its own garden, since the fruit is so much better when gathered fresh from the vines as desired for use than it is in the more or less wilted condition in which it is found on the market.

CULTURE—Plant in hills about four feet apart each way; thin out to four of the strong-

est plants in each hill; they succeed best in warm, moist, rich, loamy soil. The cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

BOSTON PICKLING—This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender.

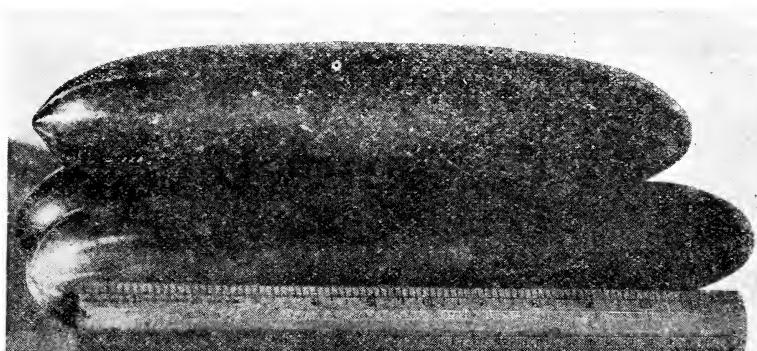
DAVIS PERFECT—This cucumber has an ideal shape and a beautiful dark green color. Its eating qualities are unsurpassed, both because of its fine flavor and its small number of seeds. On account of its fine flavor, small number of seeds, and its great productiveness, it is a general favorite and is highly recommended.

EARLY CLUSTER—A short, prickly variety; usually growing in clusters. Is a prolific bearer, and one of the earliest; flavor excellent.

EVERPEARING—This is not only a very early variety but is also extremely prolific. If the fruit is kept gathered, vines will continue in bearing throughout the season. The fruit is of medium size and rich dark green color, average from four to five inches in length by an inch and a half in diameter. Owing to its great productiveness it is an excellent variety to plant for producing small pickles.

KLONDIKE—White Spine Type. Used principally for long distance shipping, as the deep green color holds extremely well. The ends taper slightly, fruit smooth and symmetrical but not as long as some other long varieties. It is very valuable on account of its earliness. Usual size 7x2½ inches.

LONG GREEN, IMPROVED—The vines are very vigorous and productive. The fruit is very long, growing frequently from 12 to 15



Longfellow

inches, and are uniformly slender and of a beautiful dark green color. The large warts and spines are well distributed over the surface instead of being clustered at one end as in inferior stocks. This variety furnishes some fruit early but matures the bulk of its crop rather late. It is a standard sort for slicing and is very largely used for pickles. This is probably the most extensively used cucumber for the home garden and market.

SHORT GREEN, OR EARLY FRAME—A vigorous and productive variety producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling.

WHITE SPINE, IMPROVED—One of the best sorts for trade use, fruiting early and abundantly; fruit uniformly straight and handsome; light green, with a few white spines.

Longfellow

This new and greatly improved cucumber belongs to the white spine family, therefore is inclined to turn white as it approaches maturity, but never shows any trace of yellow. Its color is exceptional, being fully equal to cucumbers grown under glass, about the only criticism that can be made against the Longfellow is that if conditions are not right, there is liable to be some curved or crooked ones. The color is carried well down toward the blossom. Contains very few seeds, therefore is very solid. A very good keeper.

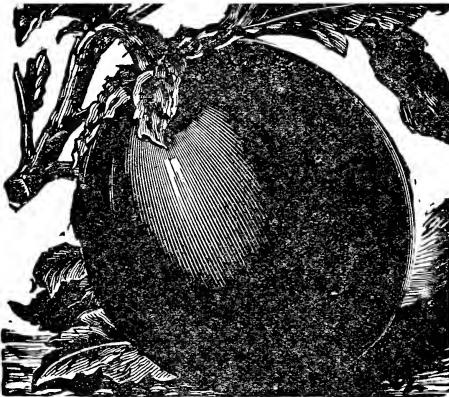
POSTPAID

Cucumbers

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.30	\$0.50	\$0.75	\$1.25	\$5.75	\$10.00

Longfellow

\$0.10	\$0.40	\$0.70	\$1.25	\$2.00	\$3.50
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Improved New York

Egg Plant

CULTURE—Sow in hotbeds very early in the spring; transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside till nights have become warm, as the least frost or cold nights will greatly retard their growth.

NEW YORK IMPROVED—This is a standard variety, both for market and home garden; a favorite anywhere.

BLACK BEAUTY—This beautiful egg plant is 10 days earlier than the New York Improved. The fruit is broad and thick, of most attractive form, and does not fade or change to a lighter

color at the blossom end. The fruits set freely and are ready for market early, so the crop can be gathered before danger of frost.

POSTPAID

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
Both Egg Plants	\$0.10	\$0.50	\$0.90	\$1.50	\$2.75

Endive



This is one of the most refreshing and attractive of all autumn and winter salads. It is most appetizing when served mixed with lettuce, with French dressing. Sow seed from middle of June to last of August.

BROAD LEAVED BATAVIAN—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched form one of the best winter salads. Crisp, tender and fine flavor.

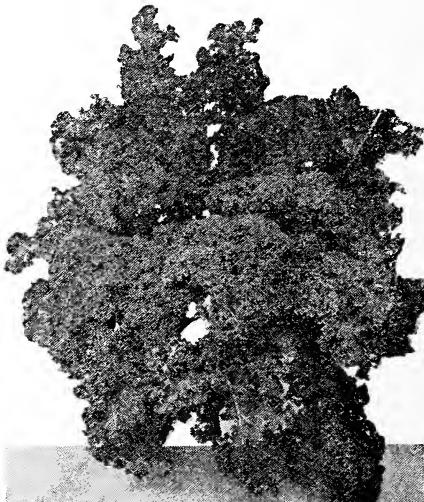
LARGE GREEN CURLED—A fine market sort; tender, green leaves; blanch white; hardy.

POSTPAID

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
Both Endives	\$0.05	\$0.20	\$0.30	\$0.50	\$0.75

Kale or Borecole

Kale or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage, and is very hardy, being improved by frost.



DWARF GREEN CURLED SCOTCH—Plant low and compact, with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss.

TALL GREEN CURLED SCOTCH—Produces an abundance of dark green, curled leaves. Very hardy.

THOUSAND HEADED—The great demand for this wonderful forage plant proves it to be the most valuable green feed for dairy and stockmen.

POSTPAID

	Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
Dwarf and Tall Kale	\$0.05	\$0.20	\$0.30	\$0.50	\$0.75
T. Headed	.05	.15	.25	.40	.60

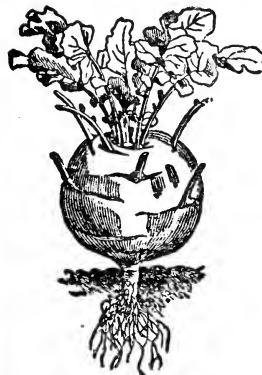
T. Headed 1.00

Garlic

Has a bulbous root, with a strong, penetrating odor and flavor. Belongs to the onion family and cultivated much in the same manner.

Lb., 60c, postpaid.

Kohl-Rabi



Very early, with small top, the leaf stems being tinged with purple.

EARLY WHITE VIENNA—Is the earliest and best for forcing; is very tender, excellent for table use.

POSTPAID

	Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
Both Kahl-Rabi	\$0.05	\$0.25	\$0.40	\$0.60	\$1.00

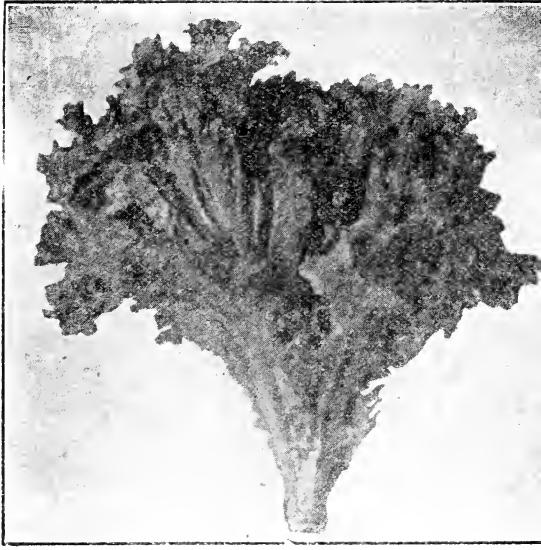
Lettuce

Lettuce to be its best should be grown rapidly, hence the soil should be made as rich as possible by liberal manuring and thorough preparation.

CULTURE—Sow every month as soon as the ground is open, in drills one foot apart, covering the seeds about one-quarter of an inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. Does best in rich, moist soil.

Early and Forcing

BIG BOSTON (Seed White)—This market variety is very popular for outdoor culture and is also in demand as a compact, large heading, forcing sort for cold-frames. The plants are large, very hardy and vigorous. The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard and crisp. In color they are bright light green, the head slightly tinged with reddish brown. The inner leaves blanch to an attractive greenish white, tinged with light yellow. It heads up under cold weather conditions better than any other variety.



Grand Rapids

GRAND RAPIDS (Seed Black)—As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. This plant is upright and forms a loose head or cluster of large, bright leaves, slightly crimped and blistered and rather thin.

Loosehead or Cutting

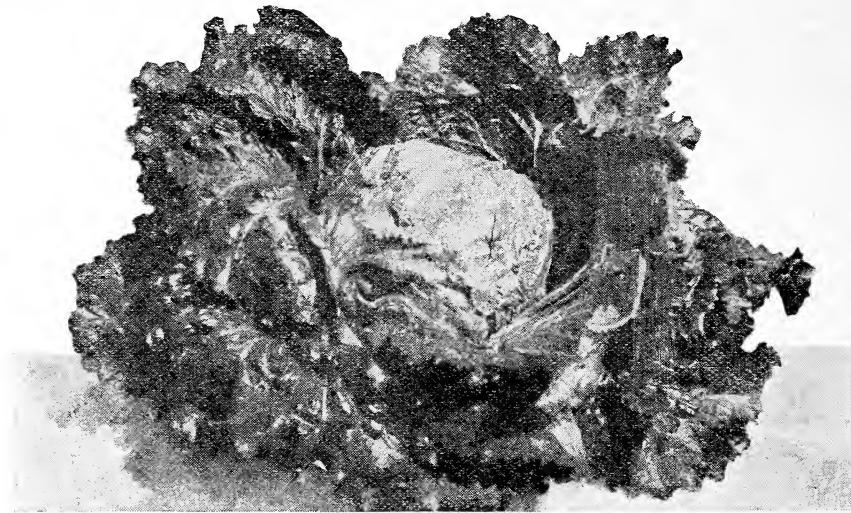
BLACK SEEDED SIMPSON—One of the best for sowing outdoors where an exceedingly tender leaf is desired. The color is an attractive light yellowish green. It is used also for growing under glass, or in frames. The leaves are ruffled and blistered and even the large outer ones are very tender. This curly and thin-leaved variety is uniformly attractive and remains of excellent quality a very long time.

PRIZE HEAD—(Seed white.) A large, non-heading lettuce, most excellent for the home garden. It is too tender, however, to stand shipping. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

SIMPSON'S EARLY CURLLED—(Seed white.) A very extensively used early loose leaved variety. The leaves are light green in color.



Hanson



New York

slightly frilled and much blistered, crisp, sweet and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young.

Heading

HANSON—One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. The inner leaves are white, very crisp and sweet.

ICEBERG—Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly blanched. It is a quick grower and always crisp and tender.

NEW YORK OR WONDERFUL—We pride ourselves upon the extra fine strain of our New York Lettuce. At the present time this variety is more generally used for commercial purposes than any other, hence it is very important to supply the growers with seed as nearly perfect as possible. This seed has been grown for us in Idaho by one noted for his painstaking and careful roguing of all heads not true to type, therefore we are confident that the seed we have is far superior to the seed grown by ordinary growers, and generally offered for sale by seedhouses. The mammoth heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. The New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head.

Cos

PARIS WHITE COS—The Cos Lettuce differs entirely in shape from other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green.

New York No. 12 Seed From Originator

This type has been developed from the standard New York flat-headed type, but is an improvement over the original, being earlier, surer header, and producing larger and more solid heads, and is slower going to seed, and not so liable to sun-scald.

Pkt., 10c; oz., 30c.; 2-oz., 55c.; 1/4 lb., \$1.00; 1/2 lb., \$1.75; 1 lb., \$3.00; 5 lbs., \$13.75; 10 lbs., \$25.00.

Chicken Lettuce

This lettuce furnishes a great amount of green feed and is therefore highly recommended for chicken or rabbit feed. It does not form heads, but produces stalks three to four feet high. The leaves can be pulled from the stalks and it continues to grow and produce more leaves.

POSTPAID

Lettuce

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.50	\$0.75	\$1.25	\$5.65	\$10.00

POSTPAID

New York

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.25	\$0.45	\$0.75	\$1.25	\$2.25	\$8.75	\$15.00

Leek

LARGE LONDON, OR SCOTCH FLAG—This leek is generally considered more delicate than the onion for soup, etc. Sow in seedbed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hoe between them. Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.50; 1b., \$2.75.

Mushroom Spawn

With intelligent care and good spawn, mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar or under the benches of a greenhouse, where the temperature can be kept from 50 to 60 degrees.

LAMBERT'S PURE CULTURE

—A new kind of spawn, without doubt the best. It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Brick, 45c; 5 bricks, \$2.00, postpaid.

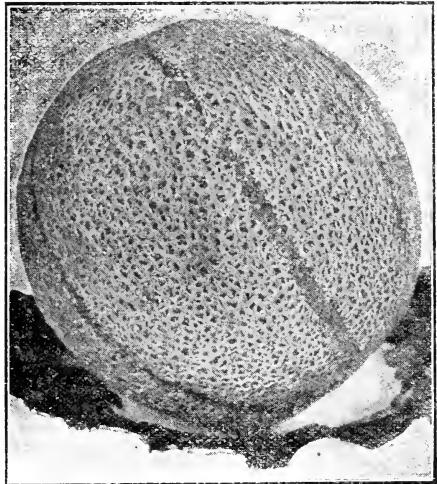
Leflet on Mushroom culture sent with order if requested.



Muskmelons

CULTURE—The seed should not be planted until the soil has become thoroughly warmed, about corn-planting time. Plant five or six seeds to the hill, in hills four to six feet apart. Rich soil or well-rotted manure should be used in the hills.

Green-Fleshed Varieties



Rockyford

ROCKY FORD OR NETTED GEM—Has attained in an incredibly short time a national reputation. It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of a light green color throughout.

HACKENSACK EXTRA EARLY IMPROVED—A selection from and an improvement on the old Hackensack, and similar in shape and appearance; nearly as large and fully 10 days

earlier; one of the finest for market gardeners; quality perfect.

POSTPAID

Rocky Ford and Hackensack

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.	
\$0.05	\$0.20	\$0.30	\$0.50	\$0.75	\$1.25	\$5.00	\$9.00

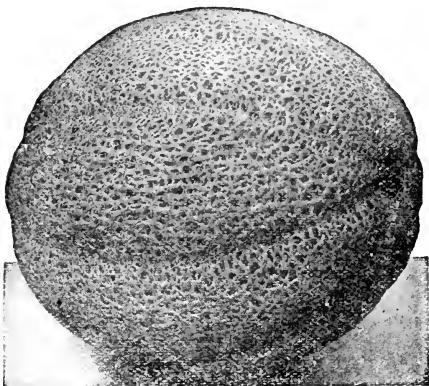
Salmon-Fleshed Varieties

BANANA—A very splendid melon averaging from 20 to 28 inches in length and almost solid. The meat is of a rich salmon color, and has a flavor which is truly delicious. Don't pick the melons until they are thoroughly ripe, as they are then at their best.

EMERALD GEM—This is a variety of excellent quality and of medium size. The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a deep salmon color, and ripens to the green rind. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.

LARGE YELLOW—The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

OSAGE OR MILLER'S CREAM—The skin is very thin, of a dark green color and slightly jetted. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious to the rind. It is also very productive. It is a remarkable keeper, and will stand shipping.



Burrell Gem

BURRELL GEM—Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 4½ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay.

POLLOCK 10-25—Is a re-selection of the Pollock's Netted Gem or Pollock's No. 25. It is not an untried variety but one that has proved its merit which distinguishes it as the most popular melon with growers everywhere. It has superseded No. 25 by reason of its long distance shipping qualities. An early melon of the solid netted type, very small seed cavity with thick luscious flesh of genuine salmon tint shading to green near the rind. A prolific yielder and is admittedly the finest salmon-fleshed melon ever introduced.

POSTPAID

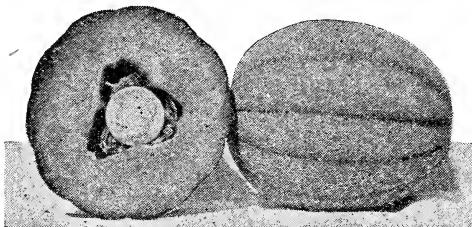
Salmon Fleshed, Musk Melons

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.	
\$0.05	\$0.20	\$0.35	\$0.60	\$0.85	\$1.50	\$6.25	\$10.00

Special Melons

CASSABA—The Cassabas are primarily for winter use. They require a long season for maturing but the fruits are exceptionally good keepers. The skin of the fruits is usually furrowed and they possess little or none of the common musk melon odor. The fruits may be picked when the light streaks have become quite yellow. Store the fruits so they do not touch each other, in a cool, dark place. When the rind becomes slightly softened and moist, they are ready to cut.

GOLDEN BEAUTY—One of the best cassabas. It is a variety grown extensively for shipment. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet.



HEARTS OF GOLD—This is an orange-fleshed variety of medium size, ideal as a shipping melon and a desirable mid-season sort for the home garden. The vines are vigorous, blight-resisting and very productive. The rind is thin, yet very firm, so that the melons arrive in perfect condition in distant markets. The flesh is very thick, firm, highly flavored, of fine texture and delicious flavor.

Hearts of Gold originated from Hoodoo, but has been very greatly improved. What was known as Hoodoo was of the flat type, while Hearts of Gold are somewhat elongated.

Note the size of the cavity as compared to size of dollar, also the very thin rind.

HALE'S BEST—An extra early salmon tint of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is ten days to two weeks earlier than any other strain of the famous Rockyford or Netted Gem variety. This has been extensively grown in California the past two or three years, and has there demonstrated its real value. Hale's Best Rockyford Cantaloupe, by reason of its earliness, quality, flavor and productiveness,

has proved itself to be the most profitable cantaloupe known. You will notice that our quotation on this variety is somewhat higher than quotations made by some other seed houses. Growers are very human and are very much like the rest of us, hence some are much more particular and dependable than others. Some growers offer this variety as cheap as other varieties. The grower from whom we secure our supply has specialized on this variety, and has given it, and is now giving it, the utmost care in the selection of stock seed, roguing crop, and cleaning same. Grown at a high altitude in Colorado, it is well adapted to this more northern section.

HONEY DEW—It is as sweet as honey and has the mingling of several flowers—pineapple, banana and vanilla predominating.

The average size of the melon is six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth, with an occasional net, is a creamy yellow when ripe. The flesh is very thick, and very fine grained. The seed cavity is very small.

It matures about ten days later than the Rocky Ford, is very prolific and will keep for several weeks if picked a short time before it is fully matured.

POSTPAID

Golden Beauty, Hearts of Gold, Hale's Best, Honey Dew

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.25	\$0.40	\$0.65	\$1.10	\$1.75	\$7.50

Watermelon seed, like all other seeds, should be selected from true types and from melons that have attained a large growth and ripened early. This method will produce and preserve true strains.

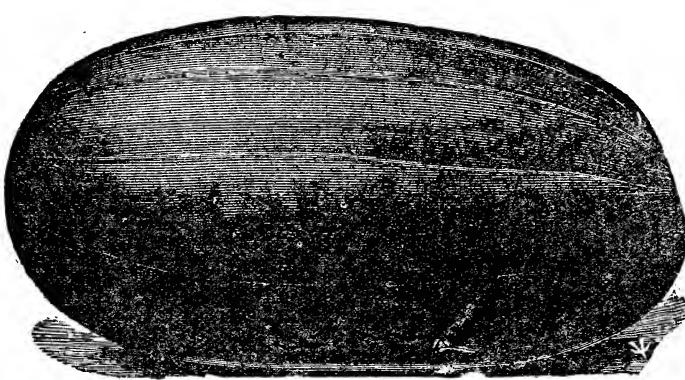
CULTURE—Watermelons thrive best on light, well drained soils, but give good results on any good rich garden soil that is properly drained and cultivated. Plant after the weather is settled and ground warm. Hills should be eight feet apart each way and with well rotted manure thoroughly worked into each hill.

CUBAN QUEEN—A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped, dark and light green.

FLORIDA FAVORITE—Oblong in shape, and growing to a very large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet.

GEORGIA RATTLESNAKE OR GYPSY—An old and still a popular variety. Large, oblong with decided stripes of light and deep green. A splendid shipper; flesh bright red and of good quality.

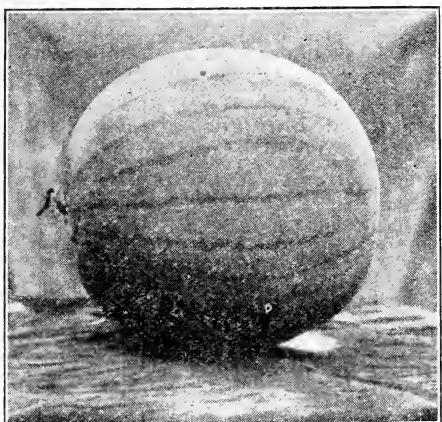
Watermelons



Kleckley's Sweet

KLECKLEY'S SWEET, OR MONTE CRISTO—(White Seeded)—This is one of the best flavored melons in cultivation, and of a shape and color that is extremely desirable. The rind is very dark green, very thin; flesh deep scarlet; fine, and of delicious quality. For the home market and family garden it is decidedly one of the best.

Attractive red color, crisp, sweet and delicious. The heart is large with no core. The appearance and quality of this melon make it desirable for both home and market use.



Ice Cream

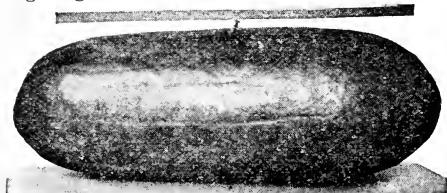
ICE CREAM (Black Seeded)—While a little later in ripening than the ordinary melon, this is more than offset by its extra fine keeping qualities, as with ordinary care it can be kept to Thanksgiving. This melon is small when compared in size to other watermelons and somewhat resembles in appearance the citron. Oval in shape, light in color, with a very faint stripe, seeds small and black, flesh bright red with a thin rind and solid meat and a flavor that far surpasses that of any other watermelon. It is crisp and delicious.

FORDHOOK EARLY—This is as its name implies, a very early melon, and will ripen and give satisfactory results in sections where a great many other varieties will not ripen. It is the earliest watermelon we list and among the very earliest grown; of medium size and of excellent quality. Dark green skin mottled with a deeper shade; flesh bright red.

HALBERT HONEY—An exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweet. It is of handsome, long, oval shape, averaging about 18 inches in length, and about six inches in diameter. The skin is an attractive, very dark green, the flesh is of a beautiful bright red, extending almost to the outer rind. The rind, too, is so thin and brittle that it cracks open very easily and will not stand hauling or shipping long distances.

PEERLESS—One of the best melons in cultivation. Rind thin, light mottled green. Flesh bright scarlet; solid to the center, sweet as honey.

IRISH GREY—A distinct and very valuable melon; wonderfully productive; long, thick, uniform. Color of rind, yellowish gray, interwoven with thread-like veins; smooth, marble-like surface almost as hard as the citron. Flesh sparkling bright red.



Tom Watson

TOM WATSON—A large, long melon similar in shape and color to the Kleckley's Sweet and possessing the same delicious flavor and qual-

ity, but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Excellent shipper.

POSTPAID

Watermelons

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00

KLONDIKE—A melon of good size and shape with dark green skin. Fruits show a suggestion of ribbing but are smooth. The flesh is highly colored and of fine quality and flavor. The seeds are small, smooth and black. This melon has become very popular on account of the attractive, bright red interior color, combined with high quality, and the thin but tough rind which stands shipping well.

POSTPAID

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.20	\$0.35	\$0.60	\$1.00	\$1.75	\$7.50	\$12.50

CITRON—For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid.

Pkt.	5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; 1/2 lb., 85c; 1 lb., \$1.50.
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Mustard

MUSTARD is used alone as "greens" or with cress as salad. Sow any time in the spring, in rows.



SOUTHERN GIANT CURLED—The leaves are large, light green with tinge of yellow, much crimped and frilled at edges. The plant is upright or slightly spreading in growth.

WHITE ENGLISH—The leaves are comparatively small and smooth, deeply cut or divided and of medium dark green color.

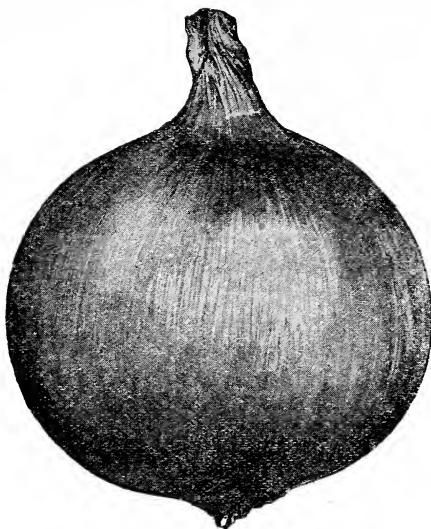
Both varieties of mustard: Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00.

Okra or Gumbo

The long, tender pods of Okra are very delicious when sliced and cooked in soups. While this is its chief use, it is also boiled and served like other vegetables. The dwarf sorts may be planted in hills or in rows about three feet apart. Plant in any good soil about May 15. The pods should be gathered when very young, as they are then very tender.

An early dwarf prolific variety with thick green pods.

DWARF GREEN—Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00.



Yellow Globe Danvers

Onions

It is readily seen that there is a great variety and diversity in the shape, color, size, and flavor of onions, also in their keeping qualities. The keeping is due in some respects to the different varieties, but the care bestowed upon the selection of the bulbs of the various varieties has much to do to improve their keeping qualities. Our bulbs receive the necessary care to insure better results.

CULTURE—Onions do best on a rich loam, previously cultivated for two years. The land should be highly fertilized with well-rotted manure, or complete fertilizers. Culture should be frequent, though shallow. The same ground may be used for onions season after season, if well fertilized annually.

Brown

AUSTRALIAN—Of medium size. Wonderfully hard and solid, the bulbs are most attractive for market, both as to form and appearance. The color of the skin is a clear amber brown. Specially noted as a long keeper as it keeps well into spring and much longer than any other varieties.

Red

LARGE RED WETHERSFIELD—This is the standard red variety and a great favorite. The bulbs are large and are flattened yet quite thick. The skin is deep purplish red. The flesh is light purplish white, moderately fine grained, rather strong but of pleasant flavor.

SOUTHPORT RED GLOBE—This most excellent medium early or main crop red variety produces bulbs of medium to large size, ideally globe shaped, with very smooth, glossy surface, very small neck and remarkably beautiful deep purplish red color. The flesh is white, tinged with light purple, mild, very fine grained and tender. It is one of the best keepers and is well adapted for shipping.

Yellow

DANVERS — YELLOW FLAT—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds.

MAMMOTH PRIZETAKER—A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender and of excellent flavor.

MOUNTAIN DANVERS—This new sort is not as round as Globe Danvers, nor as flat as the Flat Danvers. Color is a beautiful dark yellow, shading to brown. The skin is thick and heavy, which makes it a good keeping and shipping sort. Grown in Colorado, in altitudes which are peculiarly adapted to producing onions of extreme earliness and hardiness. It is from two to three weeks earlier than the Yellow Danvers or Yellow Globe Danvers, and is a cross between the Yellow Globe Danvers and the Australian Brown.

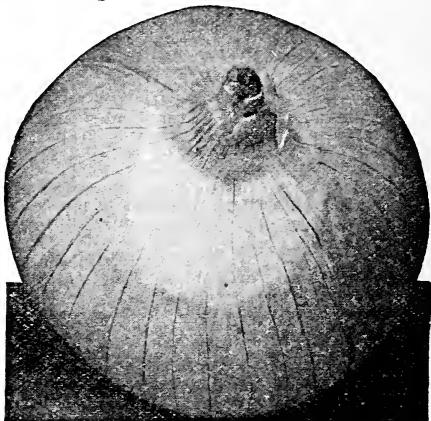
DANVERS — YELLOW GLOBE—This onion is the standard winter sort in many markets. The shape is almost globe form and the bulbs are quite large, with thin necks, ripening down well. The skin is a fine brown orange yellow, while the flesh is pure white, solid and of good quality. Its keeping qualities are of the best and its earliness makes it valuable for market.

Sweet Spanish

SWEET SPANISH—A very large globe-shaped light yellow onion with small top, and an exceptionally fine shipper. It is a Spanish variety which has quickly become very popular in many sections of this country. This onion combines flavor and mildness with good keeping qualities, thus making it a desirable and profitable onion to grow.

White

CLOVER LEAF BUNCHING—Do not make the mistake of thinking that all varieties of onions are equally good for bunching. White varieties are always the best, but even in these there is a great difference. This is the very best variety known for bunching. Recommend thick sowing.



Silverskin

PORUGAL OR AMERICAN SILVERSKIN—One of the leading white sorts, beautiful shape and mild flavor. The bulbs are flat in shape and mature early. Handsome in appearance, with clear white skin as beautiful as glistening silver. The flesh is of mild delicious flavor. It is largely used for growing sets on account of its fine shape when small, and also for its good keeping qualities. It is also extensively used as a pickling onion, for which purpose it is well adapted.

SOUTHPORT GLOBE—The superior quality of this wonderful variety is famed the world over. Its mild, delicious flavor and exceptionally attractive appearance have won great prominence. It is a most beautiful onion, of superb eating quality. Handsome, white globe shaped, flesh fine and very white, rich and sweet. It is also one of the best keepers of the silver skinned varieties. A veritable ball of silver, with thin, delicate, pure white skin. It will average from 2 to 2½ inches in diameter, and produces large yields. As soon as harvested they should be stored away in a cool, dark shed to keep them from discoloring.

POSTPAID

Australian Brown

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.40	\$0.70	\$1.20	\$2.00	\$8.75
						\$15.00

Red Globe Wethersfield, Y. Danvers, G. Danvers
\$0.05 \$0.20 \$0.40 \$0.70 \$1.20 \$2.00 \$8.75 \$15.00

Prizetaker

\$0.05	\$0.25	\$0.45	\$0.85	\$1.50	\$2.50	\$11.25	\$20.00
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M. Danvers, Bunching, Silverskin, S. W. Globe
\$0.05 \$0.30 \$0.55 \$1.00 \$1.75 \$3.00 \$13.75 \$25.00

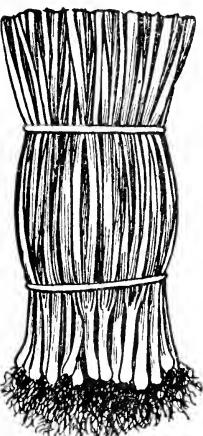
Sweet Spanish

\$0.10	\$0.35	\$0.65	\$1.25	\$2.00	\$3.50	\$16.25	\$30.00
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Onion Sets

BOTTOM SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market.

YELLOW—Lb., 20c, postpaid; at purchaser's expense, 10 lbs., \$1.25. For large quantities, write for prices, stating quantity wanted.



Onion Plants

Onion plants are being extensively used in some districts for producing large early matured onions, as matured onions can be secured from the plants much sooner than from seed. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not guaranteed.

Prices, Postpaid

1 bundle	\$0.30
2 bundles	.50
3 bundles	.65
5 bundles	1.00
10 bundles	1.75
Crate 60 bundles	8.50

Crate weighs about 30 lbs.

Add postage to crate price.

Not less than one bundle sold.

Parsley



Very useful for flavoring soups, meats and garnishment. The green leaves are used for flavoring.

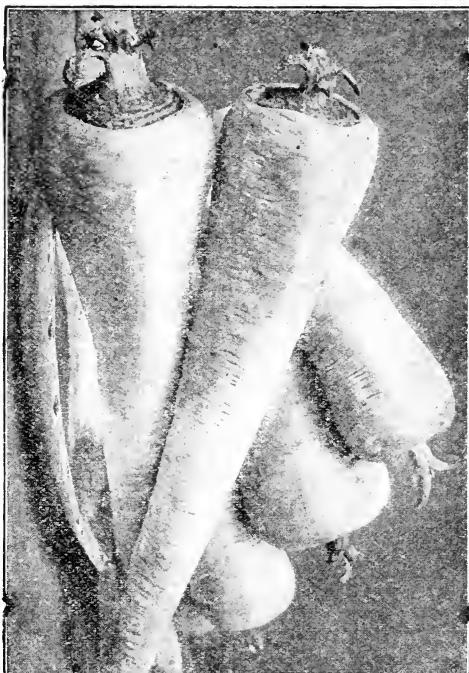
EXTRA DOUBLE CURLED—A compact grower, finely cut and much curled variety of bright green color. Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 40c; 1/2 lb., 75c; 1 lb., \$1.25.

Parsnips

The value of the Parsnip as a culinary vegetable is well known but is not generally appreciated at its full value for stock feeding. On favorable soil it yields an immense crop of roots, more nutritious than turnips and very valuable for dairy stock.

CULTURE—Parsnips do the best in rich, deep soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate, it should be sown as early as possible.

IMPROVED GUERNSEY (Improved Half-Long)—A greatly improved and wonderfully fine strain of Guernsey parsnip. It is a very heavy cropper. The roots are very smooth, the flesh is finely grained and of most excellent quality.



LONG SMOOTH OR HOLLOW CROWN (Abbot's Improved Long Sugar or Long White Dutch Parsnip)—A great cropper; tender, sugary and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost.

POSTPAID

Both Parsnips

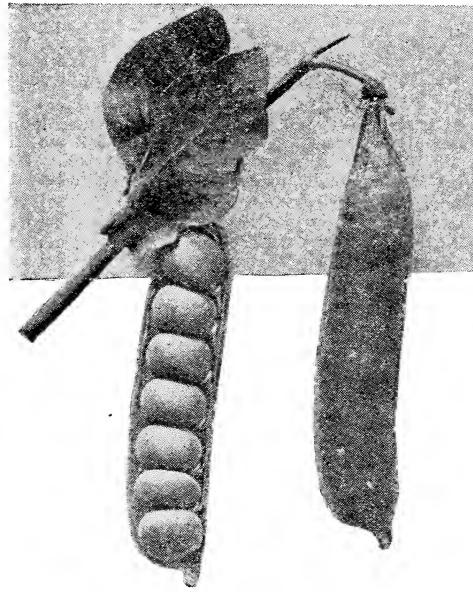
Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.55	\$0.90	\$4.00
						\$7.00

Peas, Garden

Hand Picked

Our peas are grown in the Inland Empire under our own supervision and have been very carefully rogued by us, thus insuring peas of the very best possible type. They have been grown by men of experience and in the very choicest places of the Inland Empire.

Extra Early



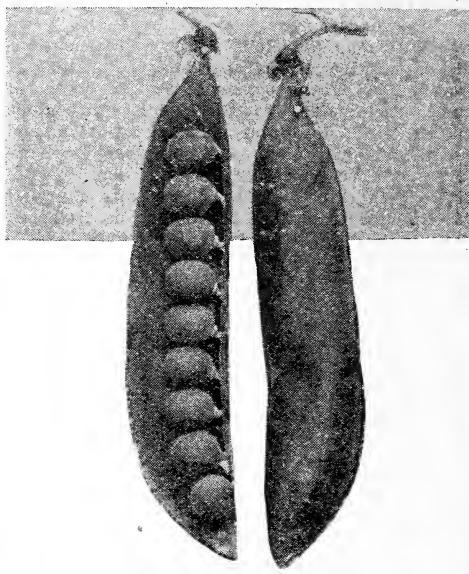
American Wonder

AMERICAN WONDER—The earliest and best of the wrinkled sort. A great favorite for family use. Has stout, branching vines about 18 inches high, and covered with well-filled pods, containing sweet, tender and well-flavored peas.

ALASKA OR EARLIEST OF ALL—Earliest and best of all of the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequalled by any other pea. Vines two to two and one-half feet high.

LITTLE GEM, McCLEAN'S—The vines grow about 18 inches in length, producing well-filled pods of from $2\frac{1}{2}$ to 3 inches long. The peas are green, wrinkled, sweet and delicious.

LITTLE MARVEL—Height 18 to 20 inches. An excellent dwarf sort for the market and home garden. The pods average a little longer than those of Premium Gem, are more attractive in shape and color and the peas are of superior quality. The vines are sturdy, and heavily set with straight, deep green pods, square ended at the bottom and nearly three inches in length. Seed large, green, wrinkled.



Blue Bantam

BLUE BANTAM—Is unequalled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 18 inches in height and carry really enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and are tightly packed with eight to ten large, deep bluish-green peas of most luscious flavor.

Second Early

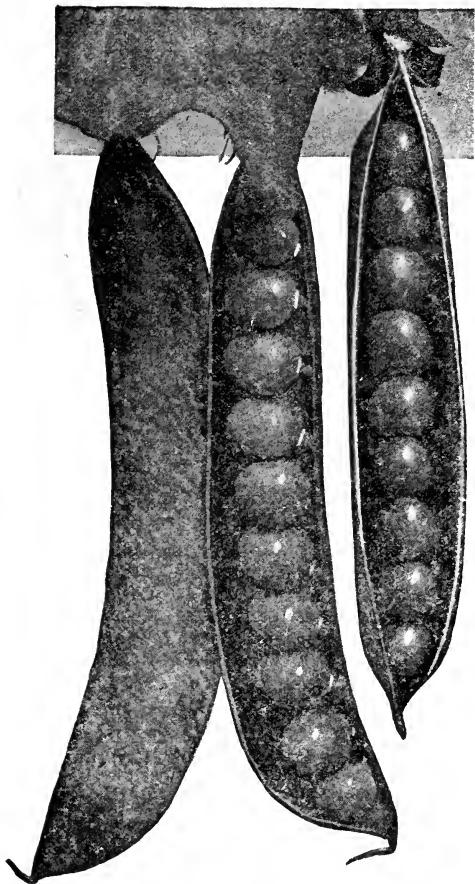
GRADUS or PROSPERITY—This remarkable pea is not only large and of the best quality, but it is also nearly as early as the small, round, extra early sorts. It is hardy and may be planted as soon as the ground is fit to work in the spring. The vine grows to a height of about 30 inches. The pods are of a light green color and measure 4 inches or more in length.

LAXTONIAN—An early pea of fine size and exceptional quality. The vines are dwarf, growing from 15 to 20 inches, but the pods are from 4 to $4\frac{1}{2}$ inches long, of bluish green color, and pointed at the end. Each pod contains from seven to ten peas of very large size and delicious flavor. The vines are vigorous, of fine dark green color.

TELEPHONE, DWARF—Produces handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent sugary flavor; vines very strong, growing from 18 to 24 inches high. The pods are of large size, filled with large, delicious peas.

Late

STRATAGEM IMPROVED OR POTLATCH—A very fine large podded pea; the pods are of immense size filled with large, dark green, wrinkled peas of the finest quality; vine of medium height, but very stocky, with very broad, light green leaves and bearing an abundance of large handsome pods.



Dwarf Telephone

Tall

TELEPHONE—The tall Telephone still remains a great favorite and one of the leading varieties. The vines grow from 4 to 5 feet and are strong and vigorous, producing large pods of about four inches in length, of a deep green color and well filled with large peas of a most luscious flavor.

POSTPAID

	1 lb.	5 lbs.	10 lbs.
All Varieties	\$0.30	\$1.40	\$2.50

NOT PREPAID

	25 lbs.	50 lbs.	100 lbs.
All Varieties	\$5.00	\$9.50	\$17.50

See our list of day-old chicks
secured from one of the best
hatcheries.

See Pages 93-94.

Peppers

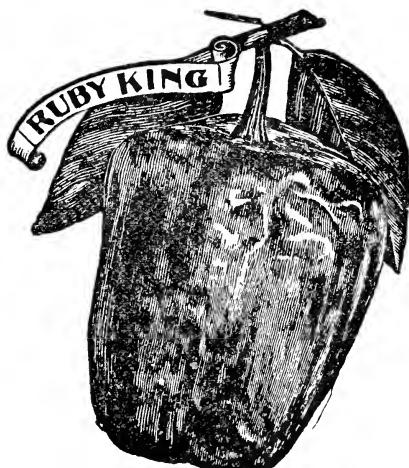
CULTURE—Sow the seed early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows 18 inches apart and one foot apart in the row.



Chinese Giant

CHINESE GIANT—An enormous fruiting variety, averaging 12 to 15 inches in circumference. Notwithstanding its large size, it is very early and very prolific. Plants are healthy, well branched, about two feet high and carry an enormous load of fruit, often having the appearance of being bunched together. Flesh is thick, tender, mild and sweet, and is excellent for salad or stuffed as mangoes. When ripe the peppers are a rich, glossy scarlet, making them of unusually fine appearance.

LARGE BELL OR BULL NOSE—Sometimes called Sweet Mountain. The plants are vigorous, about two feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, growing from three to four inches in length, with thick, mild flesh.



of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green.

RUBY KING—Very large and attractive. The plants are about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers.

POSTPAID

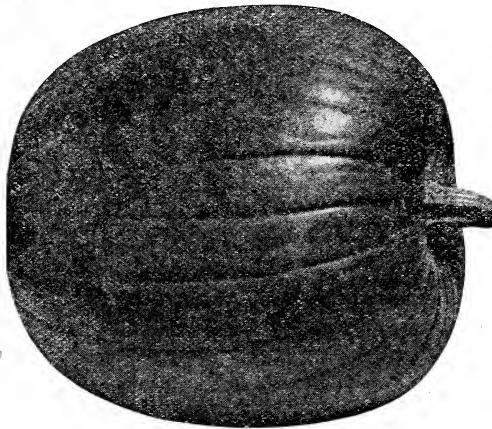
	Pkt.	1 oz.	2 oz.	4 oz.
Bull Nose	\$0.10	\$0.40	\$0.75	\$1.25
Chinese Giant .....	.10	.50	1.00	1.75
Long Red Cayenne....	.10	.50	.90	1.50
Ruby King .....	.10	.40	.75	1.25

Peanuts

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay sub-soil. It possesses a long tap-root which extends deep into the earth. Lb., 50c, postpaid.

Pumpkins

CULTURE—Sow in good soil, when the ground has become warm, in hills eight or ten feet apart each way, or in fields of corn about every fourth hill.



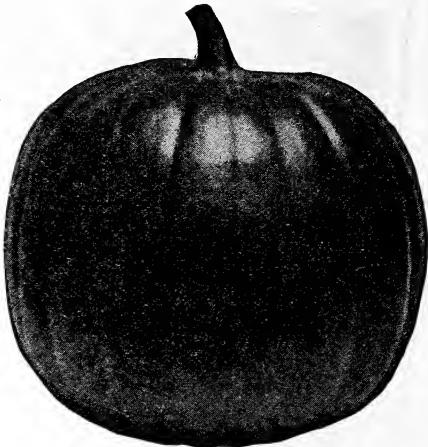
Connecticut Field

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies.

SUGAR—This variety is small, but of most excellent quality for pies. Fruits deep orange, eight to ten inches in diameter, round or somewhat flattened and slightly ribbed. Flesh rich, deep yellow, fine grained and very sweet.

WINTER LUXURY—Smooth, rounded form, with thin, tender skin of a rich golden yellow, closely netted. The fruits grow to good size and are very attractive. The flesh is very thick, sweet, fine-flavored, and excellent for pies. The vines make a vigorous growth and the fruit keeps well.

MAMMOTH PRIZE—The largest pumpkin



Early Sugar

grown; has attained a weight of 235 pounds. If you wish to see just how large a pumpkin can grow, try the Mammoth Prize. The quality is excellent.

POSTPAID

	Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
	\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00
Mammoth Prize, Winter Luxury	\$0.05	\$0.20	\$0.30	\$0.50	\$0.75	\$1.25	\$5.65	\$10.00

Radishes

CULTURE—For open ground culture sow in rich, sandy soil as early as possible, in drills 12 to 18 inches apart and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots.

Turnip-Rooted, Early

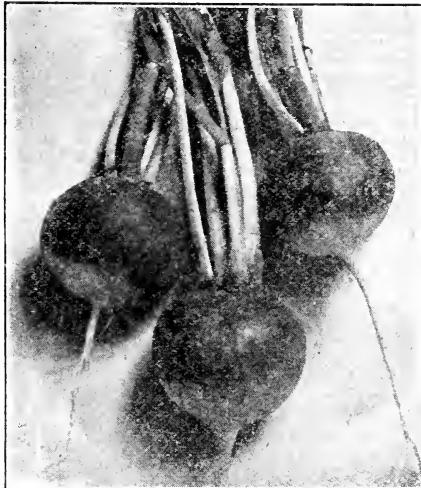


Crimson Giant

CRIMSON GIANT—The largest early scarlet turnip-shaped radish. A very early radish, double the size of any of the other early turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp and juicy, and

of the mildest flavor. Excellent for both forcing and open ground.

SCARLET GLOBE—Similar in form to the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender, top small, well adapted for growing in frames.



Scarlet White Tipped

SCARLET, WHITE TIPPED—The favorite variety for outdoor cultivation; medium size, uniform shape; color bright scarlet, with white tip, which makes it most attractive. It grows quickly; flesh white, crisp and of the best quality.

Olive Shaped, Medium Early

FRENCH BREAKFAST, OR HALF-LONG WHITE TIPPED—Medium size, of quick growth, crisp and tender; terminates more abruptly than the Half-Long Scarlet, lower end of tap root white.

Long, Late

CHARTIER, IMPROVED—Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

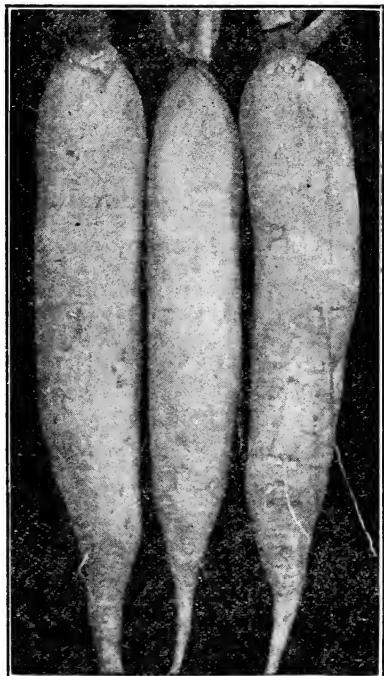
ICICLE, WHITE—The finest of the pure white varieties. They are long and slender and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains a large size, thus remaining in condition for use for considerable time. Roots grow four inches in length and half an inch in diameter; they retain their crispness and fresh mild flavor until fully six inches long and an inch in diameter.

LONG SCARLET, RED—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild.

Winter

BLACK SPANISH, LONG—Very hardy and good for winter use. Will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy.

CHINA ROSE—One of the best fall and winter varieties. Half-long shape; upper part bright crimson, shading to white. Flesh white, firm, tender and of superior quality.



White Icicle

CALIFORNIA MAMMOTH, OR WHITE CHINA—Very large and cylindrical, terminating abruptly with little tap-root; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

POSTPAID All Radishes

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$3.75	\$6.50

Rhubarb

CULTURE—Sow in drills an inch deep, and thin out the plants to six inches apart. Transplant the young plants, setting them four to six feet apart each way. The stalks should not be plucked until the second year, and the plant never be allowed to exhaust itself by running to seed.

VICTORIA OR MAMMOTH—Very large; the finest cooking variety. Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 75c; 1/2 lb., \$1.25; 1 lb., \$2.25.

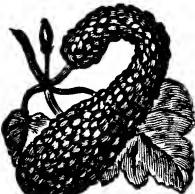
Salsify Vegetable Oyster

CULTURE—Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring, as they deteriorate rapidly after growth commences.

MAMMOTH SANDWICH ISLAND—Of superior quality. Pure white. Very meaty and of fine flavor. Grows uniformly large. Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.50; 1 lb., \$2.50.

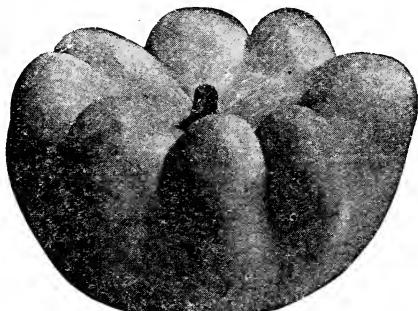
Squash

CULTURE—Delay sowing until the soil has become warm. The general principles of culture are the same as those given for cucumbers and melons. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill.



Summer Crookneck

BURPEE'S BUSH FORDHOOK—Of true bush growth with short thick fruits of remarkable quality. They may be grown for both summer and winter use. The fruits are 6 to 8 inches long, slightly ridged, with a smooth, thin, light lemon-yellow skin. The flesh is sweet and delicious.



Bush Scallop

BUSH SCALLOP, EARLY WHITE—This is the well known, very early, somewhat flattened scalloped bush squash. The color is creamy white with comparatively smooth surface. The vines are vigorous and very productive. This variety is also known as Patty Pan or Cymling.

COCOZELLE—Also known as Italian Vegetable Marrow. The oblong fruits measure from 12 to 16 inches in length. Color dark green marbled with yellow and dark green stripes. Very productive. Unsurpassed in richness of the cooked product, which is of distinct aromatic flavor.

ENGLISH VEGETABLE MARROW—This is one of the very best summer varieties. Creamy white skin with pure white flesh, oblong in shape, usually measuring from ten to fifteen inches in length by from four to six inches in thickness.

POSTPAID

Summer Squash

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.45	\$0.75	\$1.25	\$5.65



Banana

Summer

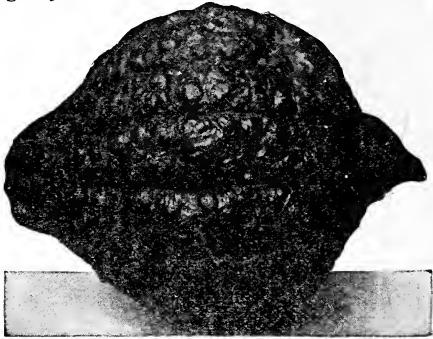
CROOKNECK, EARLY YELLOW—An early prolific kind having a solid curved neck; the skin is yellow, thin, hard and very warty, flesh tender and of good quality.

Winter

BANANA—Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. A good keeper.

CHILI MAMMOTH—Attains an enormous size, often reaching a weight of 200 pounds, and not infrequently weighs 300 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes.

DELICIOUS—Delicious is a fall and winter variety. Medium size. The fruit is moderately hard, usually dark green, but sometimes lighter in color and mottled, and are without any hard shell. The flesh is thick, very fine grained and bright yellow in color.



Warty Hubbard

HUBBARD, CHICAGO WARTY—One of the best of the winter squashes. The vines are vigorous and very productive. The fruit is large, heavy and warted, with a very hard shell. The skin is uniformly dark bronze green. The flesh is bright orange-yellow, fine grained, thick, dry and richly flavored. This squash can be kept in good condition until spring.

HUBBARD, SMOOTH—This is in all respects very much like the Warty Hubbard described above. It is of the same color and high quality, but is not warted and its shell is not quite as hard.

HUBBARD GOLDEN—They are wonderfully long keepers and can be held over in good condition for spring use. The shell is moderately warted, hard, strong and of a beautiful orange-red color, except for a bit of olive-green on the blossom end. The flesh is deep orange, dry and richly flavored.

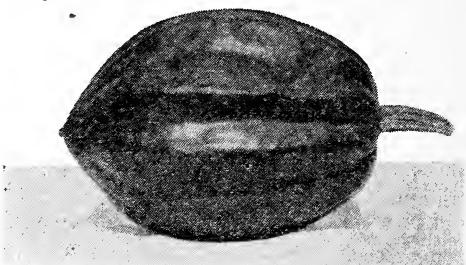


TABLE QUEEN, OR KITCHENETTE OR ACORN—A small acorn-shaped, very dark green squash, about 6 inches long and 4 inches in diameter. When fully ripe the rind turns to a bright orange color, but the squashes can be used before ripening, just as well as after. Makes excellent pies, can be cooked whole when young and keeps well.

Winter Squash—Postpaid

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.45	\$0.75	\$1.25	\$5.65

Spinach

CULTURE—It is one of the most easily managed of all vegetables, requiring but little culture. For spring and summer use sow broadcast or in drills as early as possible. Then sow at intervals for successive crops. For very early spring use it is sometimes sown in August or September, protecting it slightly during the winter.

BLOOMSDALE SAVOY—The plant is of upright growth, with thick, glossy, dark green leaves which are crumpled or blistered like those of Savoy cabbage. It is quite hardy but will run to seed quickly as soon as warm weather comes.



Long Standing

LONG STANDING—An improved variety slow going to seed, and perhaps the best for general use.

DENMARK, KING OF—This new variety is undoubtedly the most valuable introduction of spinach in recent years. Although the plants are ready for use almost as soon as the medium early sorts they remain in good condition from a week to two weeks after all other varieties have gone to seed. The leaves are thick, stand well after cutting and are of good quality.

NEW ZEALAND—Unlike the common spinach in type in that it thrives during hot weather and in any soil, rich or poor. The plant becomes very large and spreading. The leaves are comparatively small, broad and pointed. Plant three or four seeds in hills two feet apart each way. Pick the leaves from the stem, cooking these and you will have delicious greens all summer.

THICK LEAVED, IMPROVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners.

POSTPAID

All Spinach

Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
	\$0.05	\$0.10	\$0.15	\$0.25	\$0.35	\$0.55	\$2.25

Tomatoes

CULTURE—Sow early in hotbeds and as soon as they have four leaves transplant into shallow boxes. Harden off and set out as soon as danger of frost is over.

To insure best results in respect to early ripening train up and trim the vines. When the plants have been properly started and are six to ten inches high they will begin to throw out branches. Select the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches

which, as they appear, can be distinguished by the buds that are formed very early.

BONNIE BEST—A week later than Earliana, but with larger, smoother and sweeter fruits and also surpassing same in productiveness, as the vines bear continuously throughout the season. The fruits are very large, handsome, very solid and deep through. Of bright scarlet color, ripen right up to the stem without any cracks or green core. Flesh thick, with comparatively few seeds and of sweet flavor. A good shipper.

CHALK'S EARLY JEWEL—The large, hand-some fruits are very solid and deep through, being almost round or ball shaped. Color is brightest scarlet, ripening right up to the stem without any cracks. The foliage is rather sparse and open, admitting the sunlight to the center of each plant, so that all the fruit is thoroughly ripened.

EARLIANA, SPARKS'—The earliest large and smooth tomato. The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer, continuing until frost. Sparks' Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre, while other varieties yield from 75 to 100 pounds to the acre.

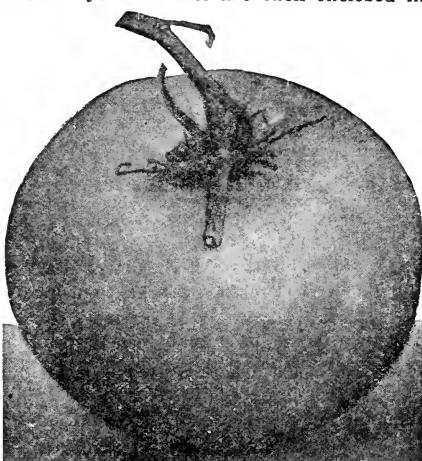
JOHN BAER—An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are most attractive in color. They are nearly round, smooth, firm and of excellent quality.

MARGLOBE—This new main crop or mid-season is claimed to be a most resistant variety and was introduced by the U. S. Dept. of Agriculture. A scarlet fruited variety of medium size, smooth, solid and deep from stem to blossom, vines making medium to heavy growth, fruit setting in clusters from 5 to 7 and growing from 6 to 8 ounces. It is a cross between the Marvel and Globe and seems to have retained the best characteristics of both. The flavor is midway between the acid and non-acid sorts.

STONE—Fine for main crop, very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best.

Small Varieties

GROUND CHERRY OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a



The Burbank Tomato

husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving.

YELLOW PEAR—The name denotes shape, also color. It is a rich, clear, yellow color and is one of the very best for preserving.

THE BURBANK TOMATO

"By far the earliest, smoothest, solidest, most productive, and best of all early tomatoes; resists wilt and other tomato diseases better than most others.

"Fruit, bright crimson; thick, solid, heavy, smooth, firm, medium to large in size; superior quality, unusually heavy and continuous bearer throughout the season; best keeper and shipper. The 'Burbank' has one other unique and most remarkable quality which will be appreciated by those who like fresh sliced tomatoes for the table. Unlike other tomatoes, the skin peels freely from the rich, firm flesh."

POSTPAID

	Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
B. Best	\$0.05	\$0.40	\$0.75	\$1.25	\$2.00
C. E. Jewel.....	.05	.40	.75	1.25	2.00
S. Earliana .....	.05	.40	.75	1.25	2.00
J. Baer .....	.05	.40	.75	1.25	2.00
Marglobe .....	.10	.60	1.00	1.75	2.75
Stone .....	.05	.35	.60	1.00	1.75
Y. Husk .....	.10	.60	1.00	1.75	—
Y. Pear .....	.10	.60	1.00	1.75	—
Burbank .....	.10	.60	1.00	1.75	2.75
					5.00

PROGRESS

Is the order of the day, and no other branch of industry has shown greater improvement than seeds, in care, growth and improvement in quality. When you consider the great number of times that seeds are handled, seeding, harvesting, threshing, cleaning and shipping, before it reaches the dealer or retailer, you can readily see the great care that must be exercised in order that the different varieties may reach the planter true to name and when you consider the few errors made and the very few instances that the grower has reason to complain, you will realize how efficiently the grower and dealer have performed their part.

There are no better seeds offered by any seed house than those offered by the Inland Seed Co., but they are continually on the outlook for improved strains and are therefore offering the following:

Specials

EARLIANA AND BONNY BEST TOMATOES
and are submitting the following statements and facts as given us by the grower which accounts for the higher prices, but as is well known to all gardeners the first cost of seeds is a very small item, providing that better results are obtained. We sampled these two tomatoes last year to a number of growers and had very satisfactory reports, and basing our judgment on these reports we have no hesitancy in recommending them.

STATEMENT OF GROWER

Inland Seed Company, 120-122 S. Howard St., Spokane, Wash.:

Our Tomato seed is saved from fields which are grown for no other than seed purposes, from the very best selections which we are able to make. All fields are thoroughly rogued during the growing season to eliminate undesirable plants. In our harvest process we save no by-products, such as tomato pulp for catsup or soup stock. Our Tomatoes are ground into a coarse pumice and allowed to ferment and the seed is then washed free from the pulp in a stream of running water. At no time in the process of harvest is the seed under pressure,

scraped or rubbed such as is often the case when it is put through a "reel" in order to save the pulp. Our harvest process is distinctly different from that usually followed.

Price: Pkt., 15c; oz., 85c; 2 oz., \$1.50; 1/4 lb., \$2.50; 1/2 lb., \$4.50; lb., \$8.00.

Turnips

CULTURE—For early use sow as soon as the ground can be worked, in drills 15 to 18 inches apart, and half an inch deep. For winter use, sow during July, as early sowings are unfit for winter use.

ABERDEEN, YELLOW—Round, medium size, light yellow; produces a large crop; flesh very firm, tender and sweet.

AMBER GLOBE—Grown usually for stock feeding. The roots are large and of globular shape. Skin clear yellow except the top which is tinged with green. The flesh is light yellow, fine grained and sweet.

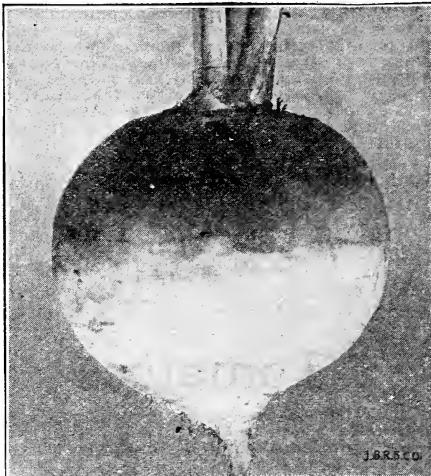
COWHORN—Sometimes called Long White is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED—A leading white-fleshed variety, of medium size. The flesh is firm, but tender, and of a superior rich, buttery flavor.

MILAN, WHITE—The earliest of all. The earliest turnip and the best quality in its class. A fine, snowy-white color. The skin is so smooth and neat as to seem polished. The foliage is short. Size medium, and the flesh is white, tender and smooth grained.

POMERANIAN WHITE GLOBE, STRAPPED LEAVED—This is a free growing, rough leaved sort; perfect globe shape; skin white and smooth; leaves dark green.

PURPLE TOP, STRAPPED LEAVED, EARLY
—One of the best and most universally grown; small, erect top, round, flat; purplish red above; white underneath; flesh firm, but very tender and sweet.



Purple Top White Globe

PURPLE TOP WHITE GLOBE—A perfect globe shape, with smooth, white skin; flesh pure white, firm and crisp. Purple above ground.

SNOWBALL—A perfectly globe shaped, white

skinned turnip. The flesh is fine grained, firm and of very delicate flavor. Very early.

WHITE EGG—Egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground.

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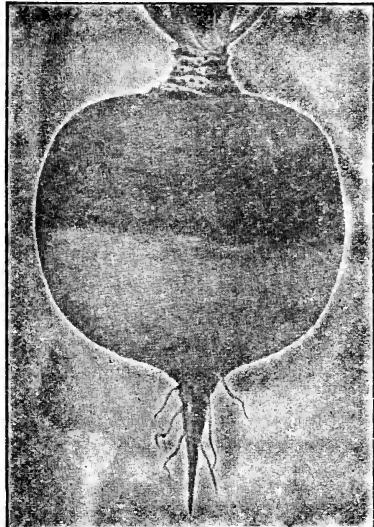
All Turnips

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.85	\$3.75

Rutabagas OR SWEDES

For feeding stock in fall and winter there is nothing superior to rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We desire to call special attention to an improved Bangholm.

YELLOW SWEDE OR RUTABAGA—Shape oblong, dull reddish color above ground, but yellow underneath; is harder than the common turnip and will keep till spring.



Danish Purple Top

BANGHOLM PAJBJERG (Improved Danish Purple Top)—This variety was awarded a first-class certificate by the Danish government for heaviest yield, having given 49 tons per acre.

This purple top sort is excellent both in shape and quality. The roots are of large size, slightly tankard shaped, with small neck and few or no side roots. The skin is yellow with purple top. The flesh is yellow, sweet and solid.

POSTPAID

Both Rutabagas

Pkt. 1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.85	\$3.75

SIMPLICITY OIL BROODER See Price

Herbs

CARAWAY—Grown for seeds; used for flavoring. Pkt., 10c; oz., 25c.

CATNIP OR CATMINT—Leaves and young shoots for seasoning. Pkt., 15c; oz., 75c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 10c; oz., 25c.

DILL—Seeds have an aromatic odor and pungent taste. Pkt., 10c; oz., 20c; 2 oz., 30c; 1/4 lb., 45c; 1/2 lb., 65c; 1 lb., \$1.00.

MARJORAM—Sweet; leaves and shoots used for seasoning. Pkt., 10c; oz., 40c.

SAGE—One of the most extensively used herbs for seasoning; hardy perennial about fifteen to eighteen inches high. Plant very branching; flowers usually blue, sometimes pink or white; leaves grayish green, oval, wrinkled. Pkt., 10c; oz., 75c; 1/4 lb., \$2.50.

SUMMER SAVORY—Used for flavoring soups. Pkt., 10c; oz., 40c.

THYME—Leaves and young shoots used for seasoning; a tea is made from leaves, a remedy for headache. Pkt., 10c; oz., \$1.00.

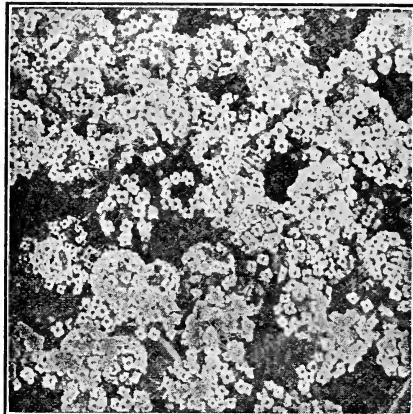
Flower Seeds

In describing our flower seeds the letter (A) denotes annual variety; (B) biennial, and (P) perennial.

AGERATUM—Floss Flower (A)—One of the most useful and profuse-blooming plants known. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer. Mixed. Pkt., 5c.

MEXICANUM COERULEUM—Blue. Pkt. 10c.

MEXICANUM GRANDIFLORUM—White. Pkt., 10c.



Alyssum

ALYSSUM (Carpet of Snow) (A)—The plants are very dwarf and spreading; they grow only three to four inches high, and each plant completely covers a circular space 10 to 15 inches in diameter. They soon become one mass of white, remaining in full bloom from spring to fall. Pkt., 10c; 1/2 oz., 40c; oz., 60c.

LILAC QUEEN (A)—Of dwarf compact habit. Produces an abundance of bloom of a deep lavender lilac. Plants about six inches high.

Pkt., 10c.

SAXATILE (P) (Basket of Gold)—A hardy variety bearing an abundance of yellow flowers in April and May about nine inches high.

Pkt., 10c.

AMARANTHUS (A)—Brilliant-foliaged, growing from three to five feet high, bearing curious racemes of flowers. Useful for the center of large beds. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

Mixed: Pkt., 5c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

CAUDATUS (Love Lies Bleeding)—Blood red; drooping. Pkt., 5c; $\frac{1}{2}$ oz., 30c; oz., 50c.

ANEMONE (Coronaria) (P) (Wind Flower)—They are about two inches across, with blue stamens, resembling the single poppy in shape, and are profuse bloomers.

Single, Mixed Pkt., 10c.

ARABIS OR ROCK CRESS (P)—The blooms are produced in such great profusion that within a short time they appear like a mass of snow. They are excellent for the rock garden, where they thrive luxuriantly or for borders to other perennials. Pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

ASPARAGUS—This pretty foliage plant is quite well known under the name Asparagus Fern. It is extensively grown in pots, but is just as useful for cutting. An admirable house-plant for summer or winter. It grows freely and quickly and should be placed near a sunny window.

PLUMOSUS NANUS—A graceful foliage plant with fern-like leaves of a rich green color. The leaves are very finely divided and very useful for cutting. Excellent pot-plant.

Pkt., 10c.

ASTERS

There is no more beautiful flower than the Aster, and there is none with a greater diversity of colors and sizes. These have been very much improved, so that today the largest and most beautiful resembles a fine Chrysanthemum more than it does an old-fashioned Aster.

The Aster is, perhaps, the most popular annual flower grown in this country, and justly so on account of its ease of culture, season of bloom, and lasting qualities.

COMET, GIANT (A)—Plants are of upright habit, about two feet high, producing long

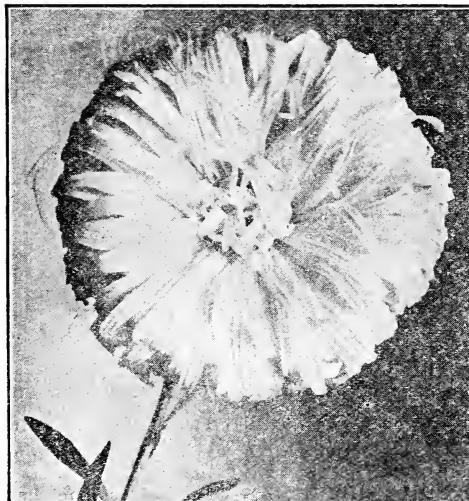
stemmed flowers composed of wavy petals. Flowers medium size, double and well formed. A good bedding variety. Peach Blossom, Light Blue, White and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

IMPROVED CREGO (A) PLANTS—Robust; about two feet high. The large double flowers are well formed, of the Comet type, making a very fine variety for all purposes. Azure Blue, Crimson, Lavender, Rose, Pink, Purple, White and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.



Improved Ostrich Feather

IMPROVED OSTRICH FEATHER (A)—The finest type of the Giant Comet, or Ostrich Feather type of Asters. Much larger than the Giant Comet, the petals longer and more curled and twisted, and produced in greater abundance. Borne on long stems, which makes them cut flowers par excellence. Plants about $2\frac{1}{2}$ feet high and robust in growth. Dark Blue, Shell Pink, Crimson, White, and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.



Giant Comet



Vicks Branching

VICKS BRANCHING, also known as American Branching—This class of Asters bloom very profusely during the fall months, coming into bloom immediately after the Cregos.

Plants grow from $2\frac{1}{2}$ to 3 feet high; branch freely and of robust habit, bearing a large number of well formed, nearly round, double flowers of good size. Blue, Pink, Scarlet and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

SPECIAL ASTERS

EARLY BEAUTY—These asters are in two classes, namely Early Beauty and Late Beauty. The Early Beauty, however, is not considered an early variety, but is so called to distinguish it from the Late Beauty. The Early Beauty comes into bloom at about the same time as Cregos and American Branching. The seed we are offering is of the Early Beauty type. Plants grow from 2 to 3 feet high and are unusually vigorous. The large double flowers measuring from four to five inches across, are borne on long, stout stems ranging from 18 to 24 inches.

Mixed: Pkt., 15c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.



California Giants

CALIFORNIA GIANTS (A)—After several years of hybridizing and selection, the grower reports that the California Giant Asters possess the robust habit, vigorous growth and length of stem found in the best types of other varieties and adds that their flowers are much larger than the Improved Crego, often measuring five to six inches in diameter, and that they are characterized by the Ostrich Feather type of flowers. Their size, beauty and length of stem make them very attractive and desirable. Peach, Deep Rose and Mixed.

Pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

HEART OF FRANCE (A)—The best pure red Aster ever introduced. The flowers are large and full. The plants are very robust. The stems are long and strong. They retain their brilliancy and luster for a longer period than almost any other color. Medium early.

Pkt., 10c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

SUNSHINE—A beautiful new type of Aster, forming well-branched bushes carrying a profusion of excellent long-stemmed flowers. The outer petals are long and narrow, whereas toward the center the petals are tubular, with a four-pointed star at the end. Excellent for garden display and particularly fine for cutting.

Single Mixed, Pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

HARDY PERENNIAL ASTERS (Michaelmas Daisies)—Single fall-flowering hardy herbaceous

plants, thriving in any good garden soil. If sown early they will flower the first season; 3 feet. Mixed, Pkt., 15c.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS—Also called Corn Flower—(A)—A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome.

Double Mixed, Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

BALLOON FLOWER, or JAPANESE BELL-FLOWER (PLATYCODON) (P)—One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April. Flowers blue. Pkt., 10c.

BALSAM OR LADY'S SLIPPER (A)—A favorite garden flower, producing its gorgeous masses of beautiful brilliant-colored double flowers in the greatest profusion; 2 feet. Start the seed indoors in April or sow out of doors in May. To grow fine specimens they should not be closer than 18 inches apart.

Double Cameilla-Flowered—Mixed. The largest double variety. Pkt., 10c.

Single Cameilla-Flowered. Mixed, Pkt., 10c.

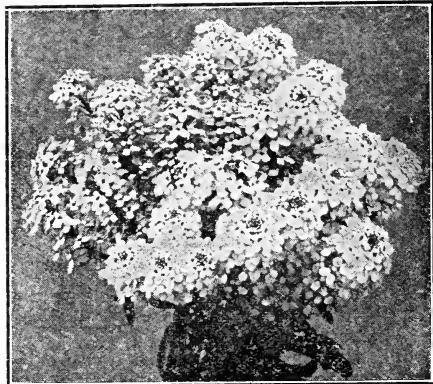
BLUE LACE FLOWER (A)—Grows into an upright plant of about two feet in height. Each branch ends in an umbel of light sky-blue flowers which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. Pkt., 15c.

CALENDULA (POT MARIGOLD) (A)—Very hardy, one foot high, blooming freely practically the whole year round. Is of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive.

Double Mixed, Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 30c.

ORANGE BALL (A)—A very fine double calendula, a magnificent flower, growing to enormous size, and is outstanding because of its rich orange-yellow color. The flowers are well rounded and fully double to the center. The long-stemmed blooms are very fine for cutting.

Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz. 40c.



Candytuft

CANDYTUFT (A) (Iberis)—Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single cruciform flowers in a wide range of colors. Considered indispensable for cutting and very effective in beds, masses or rockeries.

EMPRESS (A)—Giant White. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c. **Giant Mixed (A)**, Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

CALLIOPSIS (A)—A quick growing annual. The flowers are placed on graceful wavy stems and in color run through all the shades of red and yellow; dainty foliage. Tall double mixed. Tall, single. Mixed: Pkt., 5c; $\frac{1}{2}$ oz., 30c; oz., 50c.

CANNA (P)—Enormous brilliant clusters of bloom borne on spikes above broad leaves of green or bronze, in tropical effect. These are usually planted from roots or started plants, but they can be successfully grown from seed if planted early. The seed should be soaked in lukewarm water for 24 hours before sowing. About 3 feet high.

Mixed: Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

CANTERBURY BELLS (Campanula Calycanthema)

(Cup and Saucer) (B) — Produces

beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early summer.

A hardy biennial 2½ feet high, flowering the second season from seed. White, Blue, Pink. Pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.00; mixed, all colors, ptk., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.





CARNATION

The Carnation has always been one of the most esteemed of flowers, on account of their spicy fragrance, richness and diversity of color, great beauty, free-blooming and ease of culture. The several mixtures offered by us are among the very best obtainable. For early blooming sow under glass. Can be sown in the open garden. Half hardy.

MARGUERITE DOUBLE MIXED (P)—The most magni-

ficent of all the Pink family and general favorite for their delicious fragrance and richness of color. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

GIANT MALMAISON (P)—An exceedingly fine mixture. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.



CHABAUDS EARLIEST FRENCH MIXED (P)—Produces double, sweet-scented flowers, in a great variety of colors and in great profusion. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.

CENTAUREAS

Centaureas embrace some foliage plants but are most generally known for their hardy flowering annuals which include some of our most graceful and showy garden flowers that have long been favorites for cutting. The tall slender straight or slightly branching plants with narrow leaves thrive well in common garden soil. They produce bright colored single and double heads of flowers on long graceful stems and some sorts are fragrant.

MOSCHATA ALBA ROYAL SWEET SULTAN (A)—This beautiful class is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather arrives. Mixed, Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

GYMNOCARPA OR WHITE LEAVED DUSTY MILLER (A)—Silvery white. Fine for bedding, vases, hanging baskets and pots. As an edging to a bed of dark-leaved Cannas or Scarlet Sage these are particularly effective. Sow the seed early indoors, and transplant in May.

Pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

CHILDSII, CHINESE WOOL FLOWER—(A)—A distinct form of the plumed Celosia, with beautiful, ball-shaped flower-heads of a purplish crimson color, somewhat resembling a ball of wool. It flowers profusely during summer and fall. Two to three feet tall. One of the finest fall-blooming annuals. Pkt., 15c.

CHINESE LANTERN (Physalis Franchetti) (P)—A hardy perennial grown for its showy scarlet-red seed-pods which are easily dried for winter bouquets. The flowers are white, followed by the showy lanterns. Easily grown in any soil. Pkt., 10c.

Celosia

CELOSIA (COCKSCOMB) (A)—Free blooming annuals, growing best in light soil not too rich. They make splendid border plants and are attractive for pot. Tall mixed, dwarf mixed, ptk., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

CELOSIA (Plumosa or Plumed) (A)—These stately plants are considered among the most ornamental. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage. Two to three feet.

Mixed: Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 90c.

CHRYSANTHEMUMS (A)—These outdoor "summer Chrysanthemums" are showy and effective. Plants become more bushy and shapely if pinched back in early growth. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots. Double Mixed, Pkt., 10c; Single Mixed, Pkt., 5c.

CLARKIA (A)—Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double mixed, ptk., 5c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

COLEUS (P)—Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, and the shades and colors are of remarkable beauty. Finest Hybrids Mixed, extra choice, ptk., 25c.

COLUMBINE OR AQUILEGIA (P)—A delightful hardy perennial, growing about two feet high, and splendid for permanent beds and bor-

ders. Thrives in partial shade and under the spray of a fountain or other moist location. Bears exquisite blossoms of clear blue, white, rose, purple and striped. Single mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00. Double mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

COREOPSIS (LANCEOLATA) (P)—Blooms the first year; flower rich yellow, single; very fine for cutting. Pkt., 10c.



Cosmos

COSMOS (A)—Very effective for autumn flowering in broad masses or backgrounds. A hardy and rapid grower, forming bush-like plants with feathery green foliage, four feet high, covered with large flowers somewhat resembling the single dahlia. They are gracefully poised on long stems and very useful for decorative purposes. Extra early.

	Pkt.	$\frac{1}{2}$ oz.	Oz.
Single Mixed	\$0.10	\$0.35	\$0.60
Double Mixed	.20	1.75	3.00

CYNOGLOSSUM AMABILE (Chinese Forget-me-not) (A)—An annual recently introduced from China; of the easiest culture, forming strong plants about 18 inches high and producing through the summer months sprays of intense blue Forget-me-not-like flowers. A splendid addition to the comparatively short list of real blue flowers. Pkt., 15c.

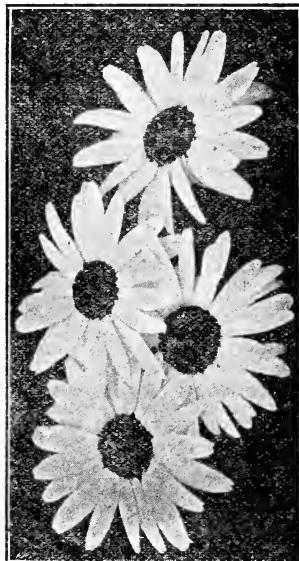
DAHLIA (P)—But few people know Dahlias can be raised from seed and will bloom the first year. Plant in a shallow box or pan early in March or April, transplant carefully as their growth demands. When all danger from frost is over transplant to bed or border in the garden. As the tubers are not hardy it is necessary to dig them up each fall to protect from frost.

	Pkt.	$\frac{1}{2}$ oz.	Oz.
Double Mixed	\$0.15	\$1.50	\$2.50
Single Mixed	.10	.75	1.25
Double Cactus	.15	2.50	4.50

DAISIES

AFRICAN DAISY (Dimorphotheca Aurantiaca (A))—A rare and extremely showy annual from South Africa which has become a great favorite on account of its very easy culture and beautifully colored flowers. Its Marguerite-like blossoms, produced in great profusion, are $2\frac{1}{2}$ to $3\frac{1}{4}$ inches in diameter. These are a unique glossy rich orange gold, which brilliant coloring is rendered more conspicuous by the dark disk surrounding the black zone. Pkt., 10c.

BELLIS, DOUBLE ENGLISH DAISY (P)—A favorite perennial which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring till August. For best results, new plants should be raised from seed each year. Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.



Shasta Daisy

SHASTA (P)—A most remarkable new flower, originated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted.

Pkt., 15c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

DATURA (Angels Trumpet) (A)—Large branching plants producing very large, handsome, trumpet-shaped blossoms of exquisite fragrance. Excellent for late summer and autumn flowering. Seed may be sown outdoors after danger of frost is over, but for early blooming sow in hotbed and transplant about three feet apart each way. Roots can be kept all winter in cellars. Three feet high.

Mixed, Pkt. 10c.

DELphinium (Larkspur) (P)—Very few plants are as stately, decorative and showy as these. They have a dignity peculiarly their own, with tall graceful spikes covered with bloom from top to bottom in an almost endless variety of colors.

	Pkt.	$\frac{1}{2}$ oz.	Oz.
Mixed	\$0.10	\$1.75	\$3.00
Dark Blue	.10	1.75	3.00
Light Blue	.10	1.75	3.00

Everlasting

ACROLINUM (A)—Very pretty, producing double daisy-like flowers, about one-half inch in diameter. Each flower is borne singly on a very long stem; leaves small, narrow, alternate. Grows about 15 inches high, double.

Mixed, Pkt., 10c.

AMARANTH GLOBE (*Gomphrena Globosa*)—A very vigorous and free-flowering plant with flowers resembling clover blossoms in form. Masses well for bedding, growing eighteen to twenty-four inches high. Desirable for winter bouquets if cut when in full bloom and dried in a cool, shady place. Should be hung up by stems to keep their natural shape. The seeds ordinarily germinate slowly and it is best to soak them to soften the husk.

Mixed, Pkt., 10c.

HELICHRYSUM (A)—Sometimes called Straw Flower. Large, full, double daisy-like flower heads. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding. Sow early in spring; thin to one foot apart each way. Hardy, 2 to $2\frac{1}{2}$ feet high. *Monstrosa*, fl. pl., finest mixed. Largest double flowers, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

STATICE (Sea Lavender) (P)—One of the most highly prized among the everlasting flowers, as it consists of masses of small bright flowers on large sprays, which when dried make fine winter bouquets. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

FALSE DRAGON HEAD (*PHYSOSTEGIA*) *Virginica* (P)—One of the prettiest hardy perennials, and gaining in popularity as it becomes better known. It forms dense bushes, 3 to 4 feet high, bearing freely during the summer months spikes of delicate pink tubular flowers not unlike a gigantic heather. Pkt., 10c.

FORGET-ME-NOT (*MYOSOTIS*) (P)—A modest little flower. A pretty trailer with blue flowers. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

FOUR O'CLOCK (*MIRABILIS*) (A)—Is also called Marvel of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the afternoon, hence their name. Choice mixed, pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

FOXGLOVE (*Digitalis*)—(P)—Handsome, ornamental, hardy plants of stately growth. The seed, though small, germinates readily and the plants succeed well even in poor soil if given a half shady location. The spikes are often three to five feet long and thickly strung with scores of thimble-shaped flowers. Mixed colors, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

GAILLARDIA (BLANKET-FLOWER) (A)—Splendid showy annuals, remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom from early summer till November; excellent for beds, borders, or for cutting; should be sown where they are to bloom; height 2 $\frac{1}{2}$ feet. Fine Mixed Double, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c; Perennial, Single, Mixed, pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

GERANIUM (P)—Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. Very tender and must be protected from the slightest frost. *Zonale* Mixed, pkt., 20c; $\frac{1}{2}$ oz., \$1.75; oz., \$3.00.

GEUM (P)—Mrs. Bradshaw. A pretty perennial of low growth sending up flower-stems two feet long. The flowers are double and measure two inches in diameter. They are a most intense orange-scarlet. They do best in a moderately dry soil and in an airy and sunny location. Pkt., 15c.

GILIA—*Capitata* (A)—This is a very graceful annual, growing about 2 feet high with fine feathery foliage and bearing freely over a long

season, globular heads, about 1 inch across, of rich lavender blue flowers, which last well when cut and retaining its lovely color when dried. Mixed, Pkt. 10c.

GODETIA (A)—Attractive and hardy. The plants bloom profusely and bear showy flowers of rich and varied colors, one and one-half feet. Mixed, pkt., 5c; $\frac{1}{2}$ oz., 50c; oz., 75c.

GYPSOPHILA OR BABY'S BREATH (A)—A pretty, free-flowering plant. Fine for bouquets. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 30c. Perennial, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

HELIOTROPE (P)

—A half-hardy perennial, growing about 18 inches high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation. Can also be grown against a wall and made to assume the character of a climber. Finest mixed, pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.00.



Heliotrope

HOLLYHOCKS (P)

Chater's Superb Double. Finest Mixed—These fine, old-fashioned perennials are most striking when planted in groups of long rows; their variety of color is wonderful. When plants are once obtained they last for several seasons. Double mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

ICE PLANT—Tender Annual Trailer—A pretty little trailer for baskets or massing; 6 inches high. Leaves covered with crystalline drops. Flowers white or pink. Valued for its remarkable foliage. Pkt., 10c.

JOB'S TEARS—*Coix Lachryma*—An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. Pkt., 5c.

KOCHIA CHILDSII (Mexican Fire Bush, or Summer Cypress) (A)—A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clean, bright, green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Sow outdoors early in spring, covering one-fourth inch deep; about two and one-half feet high. Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

LARKSPUR (A) (*Delphinium*)—The Larkspur with its long clustered spikes of beautiful irregular flowers, often with long spurs is especially valuable for its shades of blue. The annuals are very desirable for bedding and the seed may be sown early in spring.

Mixed— Pkt. $\frac{1}{2}$ oz. Oz.
Dwarf Double \$0.05 \$0.40 \$0.65

Tall Double05 .40 .65

LINUM (Scarlet Flax) (A)—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; one foot. Pkt., 5c.

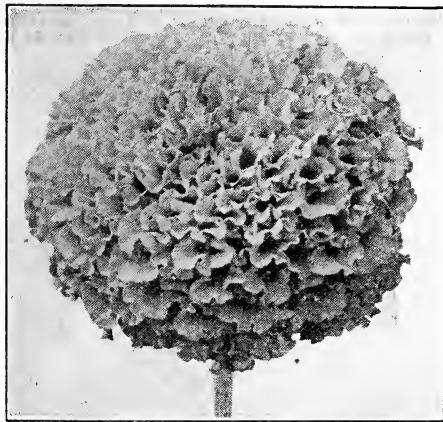
LOBELIA (A)—A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers. Highly desirable for borders and bedding.

Pkt.	$\frac{1}{2}$ oz.	Oz.
Dwarf S. Mixed	\$0.10	\$1.00
Dwarf S. Blue	.20	1.25
Tall S. Blue	.10	1.00

BEDDING QUEEN—Dwarfest, best for ribbon bedding. Flowers deep purplish-violet, with clear white eye. Pkt., 15c.

LUPINUS (A)—Free-flowering, easily-grown, with long graceful spikes of pea-shaped flowers; valuable for borders, beds and for cutting; prefers a little shade; 2 feet.

Mixed, Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.



Marigold

MARIGOLD

Tagetes (A)—The African and French Marigolds are great favorites; free-flowering, hardy, of easy culture. The African varieties grow two to three feet tall, bear large yellow or orange-colored flowers, and are adapted for large beds or mixed borders. The French varieties are dwarfed in growth, with beautiful striped flowers three to four inches in diameter, and are better suited for bedding and pot culture. They succeed best in light soil with full exposure to the sun. Either variety is splendid for cut flowers.

African

LEMON BALL—Extra large, round, double flowers of a clear canary-yellow. Large round plants with attractive dark green foliage. The flowers are borne profusely and are most attractive either in beds or borders. The beautiful flowers combine large size with good form and beautiful coloring. A continuous bloomer from July until frost. Tall.

ORANGE BALL—Enormous double flowers of intense rich orange. The flowers are produced in great profusion from July until cut down by frost. Tall.

DWARF DOUBLE—About one and one-half feet high; large flowers; desirable for shrubbery or mixed border. Mixed.

TALL DOUBLE—About two feet high with flowers three to four inches in diameter, in shades of yellow and orange. Mixed.

Pkt.	$\frac{1}{2}$ oz.	Oz.
Lemon Ball	\$0.10	\$0.75
Orange Ball	.10	.75
Dwarf Double	.10	.40
Tall Double	.10	.40

French

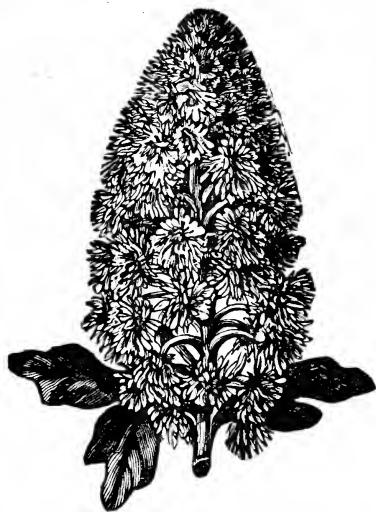
DWARF DOUBLE—One foot high with large flowers. Mixed.

TALL DOUBLE—One and one-half feet high with large double flowers. Mixed.

LEGION OF HONOR—A lovely variety with single flowers borne profusely and continuously.

The blooms are rich golden yellow, marked with a large spot of velvety crimson at the base of each petal. Of compact growth. 9 inches in height.

	Pkt.	$\frac{1}{2}$ oz.	Oz.
Dwarf Double	\$0.10	\$0.40	\$0.65
Tall Double	.10	.40	.65
Legion of Honor	.10	.40	.65



Mignonette

A well-known hard annual producing dense spikes of exceedingly fragrant flowers and much esteemed for their delightful fragrance, if sown in intervals, it will bloom until frost.

ALLAN'S DEFIANCE—Spikes grow to a remarkable size, of delicious fragrance. The individual florets are of immense size, forming a graceful as well as compact spike. Of extraordinary keeping qualities, retaining their grace and fragrance until every bud opens.

Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

GOLDEN MACHET—A compact growing variety with medium long thick spikes of yellow flowers, very fragrant.

Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

MOSCHATUS (Musk Plant) (P)—Small yellow flowers, fragrant foliage; leaves musk scented; fine for hanging baskets. Pkt., 10c.

NASTURTIUM

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained, sunny position, and from within a few weeks from the time they are grown until hard frost comes there is an endless profusion of their gorgeous blossoms. No annual will produce such a lavish profusion of flowers for so long a time, with the same small outlay of time and labor. The maximum of bloom is produced in light or sandy soils and seldom diminishes through the hot weather.

Dwarf

FINEST MIXED—This mixture is selected from the very finest varieties and when planted in beds or masses will present a most brilliant and pleasing effect. Pkt., 5c; oz., 15c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 75c; lb., \$1.25.

Tall

FINEST MIXED—This is a very superior mixture and consists of a number of the best-known varieties and will, without doubt, prove highly satisfactory. Pkt., 5c; oz., 15c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 75c; lb., \$1.25.

The tall Nasturtiums are particularly fine for massive beds, or may be easily made to climb low fences or wire netting. They are particularly showy when planted at the top of a steep slope and allowed to run down the bank.

NEMOPHILA — BABY EYES — LOVE-IN-THE GROVE (A)—A charming little annual plant, thriving especially well in moist, shady places, but quite at home in the open garden. The pretty, bell-shaped flowers are freely produced all summer. Plants eight inches high; of neat, bushy habit. Mixed, pkt., 5c.

NICOTIANA — AFFINIS (Tuberose-Flowered Tobacco) (A)—Delightfully sweet-scented, tubular flowers, blooming continually; annual, two to three feet high. Mixed, pkt., 10c.

NIGELIA—LOVE-IN-A-MIST or DEVIL-IN-THE-BUSH — DAMASCENA (A)—A compact, free-flowering plant with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual, mixed. Height, one foot. Pkt., 10c.

PANSIES

PANSY — (VIOLA ARICOLOR) (P)—A half hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation, thriving best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring.

TRIMARDEAU GIANT MIXED—Flowers of richest and most varied shades. Plants hardy and vigorous. A very fine mixture.

Pkt., 10c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.

MASTODON—Mixed—These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varieties and special strains are grown separately



Mastodon

and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered.

Pkt., 25c; $\frac{1}{2}$ oz., \$2.50; oz., \$4.00.

MASTERPIECE—Frilled, Mixed—A splendid mixture of various shapes and markings. The blossoms are perfectly round and are blotched at the base. Pkt., 20c; $\frac{1}{2}$ oz., \$2.50; oz., \$4.00.

PETUNIA

Petunia

PETUNIA (A)—Of easy culture, early to bloom and continues throughout the summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants.

Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. Single Fancy Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

CALIFORNIA GIANTS (A)—Flowers very large in great variety of colors and markings with yellow throats. Mixed, Pkt., 25c.

ROSY MORN (A)—A bright rosy pink, with silvery white throat, very charming, compact, and free flowering. Makes a very dainty and effective border. Pkt., 10c.

DOUBLE FRINGED PETUNIAS—Clover Leaf mixture of double fringed petunias is carefully selected from the best large flowering double fringed plants. It is well understood that the flowers are not all double, but those that come single will be fine large blooms. Mixed, pkt., 30c.

PINKS

DIANTHUS—The Pinks are old-fashioned favorites and have much variation in color. Both the single and double Pinks are well adapted for bedding and borders, and are suitable also for cutting as the stems are of good length and the brilliantly colored flowers contrast vividly with the rather narrow, bright, light green leaves. Seed may be sown in the open ground in spring after danger of frost is



past, in the place where the plants are wanted to bloom. Use well pulverized soil; cover the seed with one-fourth inch of fine soil firmly pressed down. Plants compact, bushy, usually about one foot high.

Single or double. Pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

PLUMARIUS—(Grass Pink) (B) — A beautiful hardy pink. Fringed-edged flowers. Sweet scented. Single mixed. Pkt. 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

PHLOX



Phlox Drummondi

PHLOX DRUMMONDI (A)—Of all summer-flowering annuals, the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. **Grandiflora Mixed**, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. **Perennial Mixed**, pkt., 15c; $\frac{1}{2}$ oz., \$2.25; oz., \$4.25.

STAR (A)—This variety is very popular, perhaps because of its bright and cheerful color. The flowers are rich rose with a distinct white star-like center surrounding a narrow ring of deep, rich red. It is a magnificent flower, well rounded, and always very large. The flowers are star-shaped and are borne in big heads throughout summer and fall. Pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

POPPIES

Probably no class of plants enjoys greater popularity and is more widely grown than the annual poppies; this is especially true of the single varieties. They are easily grown, and should be sown in beds or wild patches, in early spring, where they will grow high above the grasses on tall, graceful stems.

California

CARMINE KING (A)—Beautiful carmine rose color, both on the interior and exterior of the flower. Very handsome. Single. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

GOLDEN WEST (A) (Eschscholtzia)—Commonly known as California poppy. This is the best known of this species of poppies and has been a great favorite wherever sown. Color, rich, rare tints of yellow and orange; very beautiful. Single. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c.

MIXED (A)—This is a special mixture and comprises many of the best named varieties and embraces all colors and shades of the Eschscholtzia California type of poppies. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

Miscellaneous

FLANDERS FIELD—Vivid scarlet red. This flower has in the minds of men been associated for over two hundred years with the battlefields



of Flanders. It is said to be the first official flower of the American Legion. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 90c.

ICELAND (P)—A graceful, delicate variety, the petals resembling crumpled tissue paper. The plants are low-growing, but the stems are long and slender. Single. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

ORIENTAL (P)—One of the showiest of the perennials, with enormous flowers. The leaf is long and deeply cut and clothed with white, bristly hair. Single.

Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

PAEONY FLOWED (A)—Large, showy flowers, closely resembling a small Paeony. Profuse bloomer. Double mixed.

Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

SHIRLEY IMPROVED (A)—The most beautiful type of poppies, having soft, hairy foliage, and a great variety of blossoms. Free blooming and fine for bedding or tall border. Single. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

PORTULACA OR ROSE MOSS (A)—Brilliant, dwarf, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For masses of color, from spring until frost, they are indispensable.

Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00. Double Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

PRIMROSE

PRIMULA VULGARIS (P)—The beautiful wild English Primrose. It grows best in shady places. The seed is very slow in germinating and may stay in the ground a year, but once established, the plants are quite hardy. The flowers are clear yellow with touch of orange at base. Six inches in height. Pkt., 20c.

PRIMROSE—SINENSIS OR CHINESE (P)—The beautiful, large fringed flowers stand in pyramids arranged on short flower stems, specially fine for winter and spring flowers in the house; easily grown; free bloomers. Finest single mixed. Pkt., 25c.

PYRETHRUM (A)—A fine hardy plant with large daisy-like flowers. Blooms during May and June. A free bloomer and flowers most excellent for cutting. Foliage and flowers both very ornamental. Large flowering Double and Semi-Double and Single Mixed. Pkt., 15c.

RICINUS, OR CASTOR OIL BEAN (A)—Ornamental plants of steady growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds.

Finest Mixed, pkt., 5c; oz., 20c.

SALVIA (America)—This is undoubtedly the earliest and most continuous bloomer of all Scarlet Sages, and what is still more important, the most uniform in habit of growth; the bushy plants do not grow over 15 inches high, with the spikes of brilliant scarlet flowers thrown well above the plant, making a total height of about 2 feet. Pkt., 15c; $\frac{1}{2}$ oz., \$1.75; oz., \$3.25.

SCABIOSA OR MOURNING BRIDE (A)—A free-flowering annual. Very effective for garden decoration and valuable for cutting. Dwarf or tall double mixed.

Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

SCHIZANTHUS (Butterfly Flower) (A)—Hardy, growing one and one-half to two feet high and covered with bright, showy, butterfly-like blossoms. Large flowering.

Mixed, pkt., 10c.

SNAPDRAGON, OR ANTIRRINUM (P)—One of the most useful and showy plants. Of almost every shade and color. They have recently been much improved and are now really magnificent. Hardy perennial. Tall.

Finest Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00. White, pink, yellow, red copper, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.



Salpiglossis (Velvet Flower)

SALPGLOSSIS (A)—The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range of colors.

Finest Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

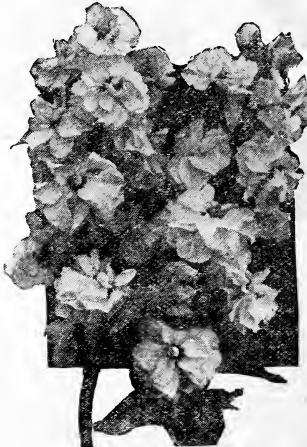
SNOW IN SUMMER (Cerastium Tomentosum) (A)—A very pretty dwarf white leaved edging plant, bearing small white flowers suitable for the rockery or for dry sunny spots or steep banks. Pkt., 15c.

SNOW ON THE MOUNTAIN (Euphorbia Variegata) (P)—Suitable for beds or borders. Small white flowers. The foliage is exceedingly ornamental, being veined and marked with broad white bands on rich green ground.

Pkt., 10c.

STOCKS

STOCKS—Sometimes called Gilliflower. Considered almost indispensable where a fine dis-



Stock

play of flowers is wanted and particularly valued for edgings, bedding and pot culture. They produce dense spikes of very fragrant and beautiful rosette-like double flowers. Are suitable for cutting, being produced on stems of good length.

The Stock is one of the most popular annuals; for brilliance and diversity of color, fragrance, profusion and duration of bloom.

MAMMOTH EARLY BRANCHING NICE (A)—This variety is now recognized as the most valuable of all stocks for cutting purposes and the most popular for general use. They come into flower almost as early as the Dwarf Ten Week varieties and the flowers are much larger. Because of their branching habit they produce a great many blooms, hence has become very popular not only with the florists but also for the home flower bed. For fragrance, brilliancy, diversity of color, profusion and duration of bloom they are unsurpassed. Double Mixed.

Pkt., 10c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.

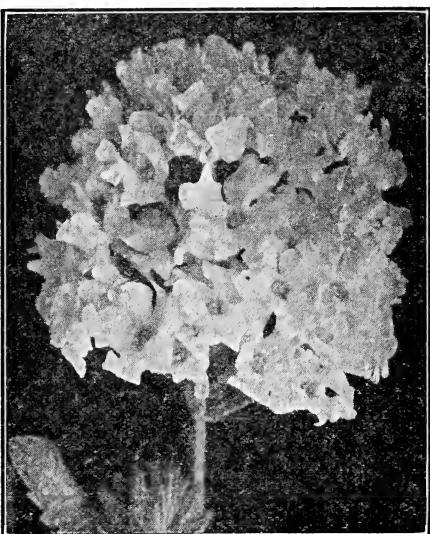
DRESDEN PERPETUAL OR BRANCHING (P)—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late autumn. Very fragrant. Double, Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.

SUNFLOWER (Helianthus) (Double Chrysanthemum Flowering) (A)—This pretty sunflower grows to be about 3 feet high and has late in summer bright golden yellow flowers on stiff stem, fine for cutting. This is a pretty and refined flower, four inches across. Pkt., 5c; $\frac{1}{2}$ oz., 30c; oz., 50c.

SWEET ROCKET (Hesperis) (P)—Among the most desirable of hardy flowers, also known as Dame's Rocket and Dame's Violet; grows from two to three feet high and bears spikes of showy fragrant flowers. Mixed. Pkt., 5c.

SWEET WILLIAM (P)—A well-known, attractive free flowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. Mixed Double, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25. Mixed Single, pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

THUNBERGIA (Black-Eyed Susan) (A)—One of the best trailing plants for boxes, vases, etc.



Verbena

Neat, compact growth. The pretty flowers, an inch in diameter. Mixed, pkt., 10c.

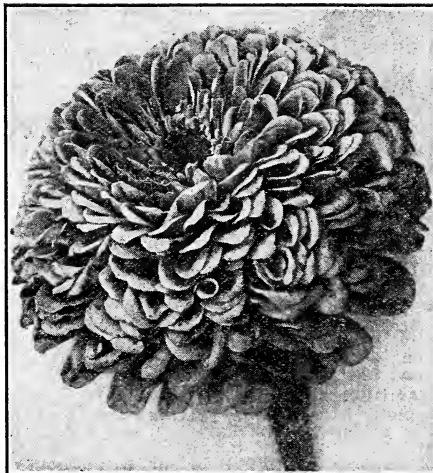
VERBENA (A)—Very few annuals will make such a gorgeous display during the summer months. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth. They flower in July and continue until frost. **Mammoth Extra Choice**, Mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

VINCA (Periwinkle) (P)—Very attractive plants with glossy green foliage, suitable for summer bedding and borders. If sown early under glass and transplanted in a warm, sheltered situation will bloom in summer and autumn and may be potted for the house before frost. About 15 inches high. Mixed, Single, pkt., 10c.

WALL FLOWER (P)—Produces spikes of beautiful, exceedingly fragrant flowers. Half-hardy. Mixed, Single, large flowering, pkt., 5c; $\frac{1}{2}$ oz., 35c; oz., 60c. Mixed, Double, pkt., 20c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.75.

GARDEN MIXTURE (A)—A garden is not complete without a bed of this mixture of flowering annuals. A package will sow a bed about two by ten feet, and if sown early in the spring will furnish continual bloom throughout the season.

	Pkt.	Oz.	2 Oz.	4 Oz.
Annuals		\$.10	\$.30	\$.50
Perennials		.10	.35	.60
				1.00



Giant Dahlia Flowered

Flowered Zinnias as regards form and size. A striking self color of deep rose.

PURPLE PRINCE—A fine deep purple, large and well formed. Very beautiful.

The foregoing five Giant Dahlia Flowered Zinnias, Pkt., 20c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

SPECIAL MIXTURE—This special mixture contains the very best of the Giant Dahlia Flowered varieties of Zinnias. Is well blended as it has been thoroughly rogued in the field for type and size of flowers. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.

SWEET PEAS

No garden is too small for a row of Sweet Peas, and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower.

CULTURE—Early in spring make a trench three to four inches deep in rich, mellow soil. Plant the seed in the bottom, covering at first one inch deep. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed in this, covering with more sand. When the plants are two inches high, cultivate and as they grow gradually fill up the trench. When the plants are about five inches high it is desirable to furnish some support for the vines to run upon. Water applied thoroughly once or twice a week, preferably early in the morning or in the evening, is usually better than light sprinkling more frequently. The blooms should be picked before they form pods or the plants will soon stop flowering.

MIXED GRANDIFLORAS

OUR CLOVER LEAF MIXTURE is blended in the proper proportions and good seed only is used. Therefore, it is highly dependable, and with proper care should give very satisfactory results. Pkt., 5c; large package, 15c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 60c; $\frac{1}{2}$ lb., 85c; 1 lb., \$1.50.

MIXED SPENCERS

If one is growing a quantity of Sweet Peas, straight varieties are certainly beautiful, but when a short row is grown we recommend sowing mixed seed. For this reason we are always very careful regarding our mixtures. In fact, they are just looked after in the same painstaking manner that our named varieties are.

OUR CLOVER MIXTURE is highly dependable, and with proper care should give very

satisfactory results. Pkt., 10c; large package, 25c; oz., 25c; 2 oz., 40c; $\frac{1}{4}$ lb., 60c; $\frac{1}{2}$ lb., \$1.00; 1 lb., \$1.50.

STANDARD SPENCERS

All the following 20 varieties of choice Spencer Sweet Peas: Pkt., 10c; any 12, \$1.00; oz., 30c; 2 oz., 55c; $\frac{1}{4}$ lb., 90c; $\frac{1}{2}$ lb., \$1.50; 1 lb., \$2.50.

Blue **MRS. TOM JONES**—Bright delphinium-blue. The flowers are very large and of great substance; beautifully waved, and invariably come four on a stem of great length. A first-class rich blue has long been wanted and now we have it in this charming and beautiful novelty.

WEDGWOOD—Bright, silvery blue. Large, well waved flowers on long stems. An attractive and very desirable shade.

Cream **DOBBIE'S CREAM**—A strong growing, cream or primrose. A profuse blooming variety, with large, much waved flowers, often duplexed.

Crimson **KING EDWARD**—Deep rich crimson; a strong and beautiful color. Does not fade or scorch.

DOBBIE'S SUNPROOF—This is a fitting companion to Dobbie's Cream, and will be as popular when as well known. Bright and attractive. A great bloomer and large flowers.

Lavender **ASTA OHN**—An exquisite rosy lavender. Flowers large and well waved.

AUSTIN FREDERICK—Flowers of largest size, well placed on long strong stems. Color a true lavender, the best yet introduced.

Maroon **WARRIOR**—The color is a rich reddish maroon flushed with bronze. Lovers of dark shades will appreciate this fine color. A strong grower and free bloomer.

Orange **THE PRESIDENT**—A most brilliant color. An intensely rich and dazzling orange scarlet, large size and perfect form.

THOMAS STEVENSON, IMP.—Intense flaming orange-scarlet standard with wings of rosy carmine shaded orange. A magnificent variety.

Pink **HERCULES**—A soft rosy pink, deepening towards the edges of both standard and wings. A very much improved Countess Spencer.

HAWLMARK—This most beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon. The wings are bright rose-pink, whereas the standard is somewhat lighter in color and slightly toned down with salmon. Large, well-waved blooms, usually borne in fours.

MARGARET ATLEE IMPROVED—A rich glowing pink on cream ground, softly suffused with salmon in the standard and pinkish rose or salmon wings. The flowers are large, beautifully frilled or waved and many of them double.

Purple **ROYAL PURPLE**—The color is a rich, royal purple, the younger flowers having a slightly softer color tone. Best purple yet introduced.

Rose **SPARKLER**—A great flower for cutting and exhibition; of largest size. The color is a charming combination of rose and cream, the standard being bright rose and the wings are a lively shade of creamy primrose lightly suffused soft rose. A most vigorous grower; the beautifully waved flowers are borne four on a stem in the greatest profusion.

Salmon **BARBARA**—A superb salmon-colored self that makes a telling border either for exhibition or table decoration. Requires shading against strong sun.

Scarlet MAMMOTH—Brilliant orange-scarlet of large size, the standard showing more orange than the wings. Vigorous and very free blooming.

VERMILLION, BRILLIANT—The standard and wings are of intense pure scarlet. The bold flowers are of largest size and are almost sun-proof.

White WHITE SPENCER—One of the purest and best whites.

KING WHITE—Remarkable for the glistening purity of the whiteness and the perfect finish of the flower. Of truly gigantic proportions. Four flowers on a stem.

All of the foregoing 20 varieties of choice Spencer Sweet Peas. Pkt., 10c; any 12, \$1.00; oz., 30c; 2 oz., 55c; 1/4 lb., 90c; 1/2 lb., \$1.50; lb., \$2.50.

SELECTED SPENCERS

All of the following 12 varieties of Selected Spencer Sweet Peas. Pkt., 2 for 25c; 12, \$1.20;



oz., 35c; 2 oz., 65c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; lb., \$3.00.

Blue SKY—The color is bright and clear, combining purity with warmth. Large flowers, beautifully waved, carried in fours on long stems.

FORDHOOK BLUE—This variety is very outstanding, being a rich azure or light violet-blue color. Of strong growth and free blooming. Large size.

Lavender WEMBLEY—A delightful shade of lavender with a touch of plumbago blue and a silver sheen.

Pink MISS CALIFORNIA—A most beautiful and outstanding cream pink. The beautiful coloring of the flower and blending of shades is perfect and wonderful. Large flowers, waved, and borne in fours on long stout stems, combined with its vigorous growth, makes it a very desirable variety.

ROYAL PINK—Shrimp-pink and orange.

SUNSHINE—An outstanding sweet pea on account of its remarkable color. The flowers are a pleasing shade of Formosa Pink, with a blotch of deep primrose at the base of the standard. The reverse of the standard is flushed yellowish amber.

Purple FLORADELLE PURPLE—It is a warm rich shade of rosy purple. The standard has a rich metallic sheen which greatly adds to the attractiveness.

PURPLE PERFECTION—This is quite a recent addition to the purple class. The blooms combine richness of color with large size and good form.

Orange ELECTRIC—The standard is a lovely shade of rich orange-red suffused salmon. The wings are deep rose suffused orange.

FORDHOOK—This is unsurpassed in color. The blooms are bright orange, very large and does not scald in the sun.

Scarlet FLAMBEAU—Pure scarlet overlaid with a bright orange-scarlet sheen, very handsome and attractive.

GRENADIER—The large flowers are a rich poppy scarlet. Borne abundantly on long stems.

All of the foregoing 12 varieties of Selected Spencer Sweet Peas: Pkts., 2 for 25c; 12, \$1.20; oz., 35c; 2 oz., 65c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; lb., \$3.00.

These twelve varieties are not supplied in a mixture. For mixture order our Clover Leaf Spencer Mixture.

SPECIAL SELECTION

The following 6 varieties of specially selected Spencer Sweet Peas: Pkt., 15c; 6 for 75c; oz., 50c; 2 oz., \$1.00; 1/4 lb., \$1.75; 1/2 lb., \$3.25; lb., \$6.00.

Flamingo The flowers are truly enormous in size, produced in threes or fours on very long, stiff stems. The broad and well waved standard is light orange, with a suffusion of bright salmon, and the wings are a delicate shade of orange pink. It is a most charming combination of colors which blend into a general effect of bright, light orange.

Glitters The standard is a bright, fiery orange, and the wings are deep orange. The enormous flowers are of substantial texture, and hold up well after cutting. The flowers are artistically placed usually in fours, on a long and strong stem. Glitters is a strong and vigorous grower, with healthy, deep green foliage, blooming profusely and continuously.

Cheerful Graceful and showy blooms of a rich salmon-cerise shade. Under

certain conditions of light the color appears as a rich luminous Begonia-pink. Few varieties make such an imposing bunch as Cheerful. Both the standard and wings are bold yet gracefully waved. The vines make a strong growth and bear profusely.

Miss Spokane It was by special request of the Florists' Club of Spokane, Washington, and others, that the name "Miss Spokane" was given to this bright and outstanding Burpee variety. The standard is peach-red and the wings bright scarlet blending into a bunch effect of rich orange-scarlet. Miss Spokane combines immense size with exquisite form. Awarded two Certificates of Merit.

Mrs. Warren G. Harding A beautiful shade of silvery blue. The flowers are of exquisite texture, large, well waved, and artistically displayed in fours on a long stem. It is a particularly charming variety.

Snowstorm Improved This is the leading white Winter Flowering Sweet Pea in existence. It is unexcelled for both winter and spring cutting. The flowers are of immense size, well waved, and of artistic proportions. The texture is thick and substantial. Most outstanding is the glistening purity of its graceful flowers. The blooms are borne usually in fours on long stems.

The foregoing 6 varieties of specially selected Spencer Sweet Peas: Pkt., 15c; 6 for 75c; oz., 50c; 2 oz., \$1.00; 1/4 lb., \$1.75; 1/2 lb., \$3.25; lb., \$6.00.

These six varieties are not supplied in a mixture.

Sweet Peas

BURPEE'S NOVELTIES, 1931

Fire (Giant Summer-Flowering)—FIRE is flaming red illuminated by a glow of scarlet-cerise, and sunproof. In addition to the

scintillating color, it is remarkable for the duplexness of its blooms. Fire has a tendency to produce five-flowered sprays. The vines are vigorous and carry an abundance of long-stemmed blooms. The color is sure to appeal to the lover of rich shades. Fire was awarded a Certificate of Merit at the trials of the Scottish Sweet Pea Society, 1930.

Orange Flame (Giant Summer-Flowering)—ORANGE FLAME is remarkable for the richness of its color. It is the deepest of the orange Sweet Peas—the color of a fully ripened tangerine. The flowers are well proportioned, large, heavy, and substantial. Each spray carries four well-displayed flowers. For an orange, the growth is very vigorous. A bunch of Orange Flame from shaded plants is dazzling.

Ruffled Orchid (Giant Ruffled Summer Flowering)—The warm mellow color of this novelty is much like the rich lavender-pink typical of certain Cattleya Orchids. The flowers are well ruffled and frilled. They are gracefully arranged on long, strong stems. Vigorous growing and free blooming. Ruffled Orchid is the fourth of the Ruffled family originated by Burpee. It was given Honorable Mention by the judges of the Sweet Pea Trials of the National Sweet Pea Society of Great Britain.

Packet of 20 seeds 25c, or three for 65c.

PERENNIAL SWEET PEAS

Easily grown, hardy with smaller flowers and lacking the fragrance of Sweet Peas, but producing a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the first season. The plants die down late in the fall and start again in the spring.

Sow the seed outdoors early in spring, using well prepared soil and covering the seed about one inch deep with fine soil firmly pressed down. Mixed, pkt., 10c; 1/2 oz., 45c; oz., 75c.

VINES FROM SEEDS

Balloon Vine (Love-in-a-Puff) (A)—A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white, seed vessels like miniature balloons. Pkt., 5c; 1/2 oz., 25c; oz., 40c.

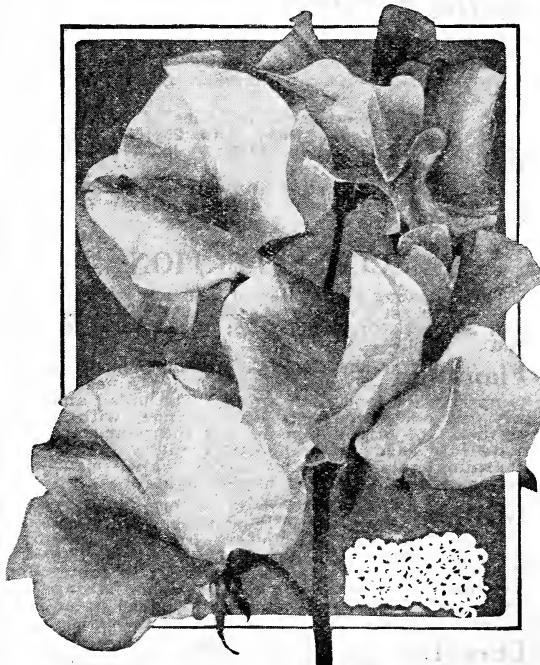
Balsam Pear (A)—A rapid grower, attaining 10 feet in height. Has graceful and ornamental foliage, yellow flowers and warty, golden yellow fruit. Pkt., 10c; 1/2 oz., 30c; oz., 50c.

Scarlet Runners (A)—A great favorite not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c and 10c; 2 oz., 15c; 1/4 lb., 20c; 1/2 lb., 30c; lb., 50c.

Bean Hyacinth (Dolichos) (A)—This really beautiful climbing plant is of quick growth; foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. The shining purple seed-pods are also very ornamental. Tender annual, growing six to eight feet. Seed should be sown where plants are desired, in as warm and dry a spot as possible. Mixed, pkt., 5c; 1/2 oz., 20c; oz., 30c.

Boston or Japanese Ivy (Ampelopsis Veitchii) (P) A rapid creeper with lovely green foliage which turns red in fall. Excellent for covering walls, outhouses, etc. Height, 50 feet. Pkt., 10c; 1/2 oz., 30c; oz., 50c.

Canary Bird Vine (A)—A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 10c; 1/2 oz., 30c; oz., 50c.



Cardinal Climber (A) This is a great favorite among the climbers and attains a height of 15 feet. The leaves resemble those of a fine Japanese maple and completely cover the vines. The bright scarlet flowers are not large but grow in such profusion as to completely cover the vines. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.

Climbers (A)—This assortment of Climbers consists of from ten to fifteen varieties and will be found to be intensely interesting and beautiful. Pkt., 10c; oz., 30c; 2 oz., 50c; $\frac{1}{4}$ lb., 90c.

Cypress Vine or Ipomea Quamoclit (A)—A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

Coboea Scandens (A)—One of the handsomest and most rapid growing of the annual climbers. It climbs 30 feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

Gourd (*Cucurbita*) (A)—The vines are of easy culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is ornamental. Do not plant the seed till danger of frost is over, and select light, rich soil and a sunny situation. Water freely. Ten to twenty feet high. Mixed, pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c.

Japanese Kudzu Vine (P)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy; fine for arbors, verandas, etc. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

Japanese Hop (*Humulus* (A)—Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

Moon Flower or Ipomea, Mexican Grandiflora (A)—Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

MORNING GLORIES

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc. Hardy. Seed is usually sown outdoors early in spring in rows where plants are to remain. Will grow to ten feet.

MORNING GLORY (A) (*Convolvulus Major* *Ipomea Purpurea*)—Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c.

GIANT JAPANESE FRINGED (*Imperialis*) (A)—The flowers of this variety are of largest size, often three inches or more across, and come in a great variety of highly dazzling colors. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. Pkt., 10c; $\frac{1}{2}$ oz., 20c; oz., 30c; 2 oz., 55c; $\frac{1}{4}$ lb., \$1.00.

SMILAX (P)—Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. Pkt., 10c.

WILD CUCUMBER (A)—This is one of the quickest growing vines. It will re-seed itself. Thickly dotted over with pretty white fragrant flowers, which are followed by an abundance of ornamental prickly seed pods. Pkt., 5c; oz., 25c; 2 oz., 40c; $\frac{1}{4}$ lb., 75c; $\frac{1}{2}$ lb., \$1.25; lb., \$2.25.

VINES FROM ROOTS

CINNAMON VINE—The stem dies every autumn, but grows very rapidly as soon as spring approaches. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is most desirable climber. Each, 15c; 2 for 30c; $\frac{1}{2}$ doz., 75c. Postpaid, doz., \$1.25.

HOPS—Are the most rapid growers of any vine coming from the roots each spring. Their rapid growth and large broad leaves cover a porch before the arrival of the hot days of the summer. Postpaid, each 10c; $\frac{1}{2}$ doz., 50c; doz., 75c; 50, \$3.00; 100, \$5.00.

Bulbs

SUMMER FLOWERING

There is nothing in floriculture that will give greater satisfaction or produce such grand results as bulbs. They are of the easiest culture. Planted in spring in good garden soil, they flower with great certainty during summer and fall. The hardy sorts may remain in the ground over winter, but tender sorts should be taken up after the foliage dries in the fall and the bulbs stored away in a cool place until planting time in the spring.

CANNAS

Cannas should be planted in good, rich garden soil when danger from frost is past. Water sparingly for first two weeks after planting. When growing freely water liberally. They are quick growers and bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and they are equally valuable for the beauty of their bloom.

The following are among the very best improved flowering Cannas, and will give great satisfaction.

AMERICAN BEAUTY—Oriental carmine or cerise. Green foliage, 5 feet. Each 35c.

BEACON—Moderate sized flowers borne in great heads of rich cardinal red. Each 25c.

BRANDYWINE—A healthy, vigorous grower of four to five feet. Makes luxuriant growth of dark bronze foliage and a magnificent display of fine large flowers. Color is intense red, beautifully dappled with deep crimson. Each, 25c.

CHAS. HENDERSON—Crimson; compact trusses; very free bloomer, leaves green. Each, 25c.

CHEERFULNESS—Its beautiful bright fire-red or deep orange flowers appear early and continue without interruption until frost. Each, 35c.

EGANDALE—A fine, bronze-leaved variety; cherry-red flowers, borne well above the foliage; handsome. Four feet. Each, 25c.

FIERY CROSS—Very large flower heads of vivid scarlet shading to crimson; foliage lustrous blue-green. Five feet. Each, 30c.

GAIETY—Reddish orange, mottled with carmine and edged with yellow. The tongue is yellow and densely spotted with carmine. Each, 25c.

LOUISIANA—Orchid-flowered. Very large trusses of vivid scarlet flowers; free bloomer. Each, 25c.

MORNING GLOW—Foliage an olive-green, striped and veined with brown. Flowers soft shell pink and orangized center. Four feet. Each, 35c.

ORANGE BEDDER—This is a particularly useful and attractive bedding variety, of a bright orange with just enough scarlet suffusion to intensify the dazzling mass of color. Four feet. Each, 25c.

PANAMA—The color of this splendid Canna is unusual, being an attractive rich orange-red with a well-defined edge of bright golden yellow. The flowers are very large, the petals being almost round. Early. Three feet. Each, 25c.

SAN DIEGO—Persian yellow, with crimped petals. Four feet. Each, 30c.

THE PRESIDENT—A gorgeous variety producing great trusses of bright red flowers in great profusion. Each, 30c.

YELLOW KING HUMBERT—Orchid flowering. Foliage tropical green; flowers rich yellow, softly spotted and blotched with bright red. Four feet. Each, 25c.

WINTZER'S COLOSSAL—Five feet. Without doubt the largest-flowered Canna to date, as the average flowers almost cover a man's hat. The color is a strikingly vivid scarlet that retains its brilliancy. Each, 25c.

All 25c Cannas, $\frac{1}{2}$ doz., \$1.35; doz., \$2.50.

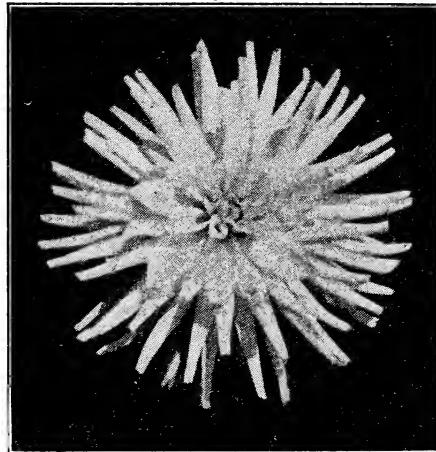
All 30c Cannas, $\frac{1}{2}$ doz., \$1.65; doz., \$3.00.

All 35c Cannas, $\frac{1}{2}$ doz., \$2.00; doz., \$3.50.

DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until frost. The following selections have been made with the greatest care, and every one will be found to possess true merit, and with proper care and conditions will amply repay the care and attention that has been given them.

CACTUS



This type is particularly valued on account of the fact that the flowers will keep in good condition longer after cutting than those of any other type.

One each of these twelve varieties of fine Cactus Dahlias, \$5.00 postpaid. If bought singly price would be \$5.45.

Crimson H. H. THOMAS—Deep crimson, bright and attractive, good bloomer with long stems. Each, 40c.

Lilac ATTRACTION—Large, elegant flower of a clear lilac-rose, borne on long stiff stems and a Dahlia of exceptional merit. A true peony-cactus type. Each, 75c.

Old Gold RAPIERE—This is as its name implies, a rich old gold or bronze and is very attractive and fascinating. Each, 40c.

Orange BOWEN TUFTS—Bright orange. Each, 35c.

Pink DENISON—Pure rosy pink. Each, 40c.

MRS. EDNA SPENCER—Delicate orchid pink. Each, 50c.

Red WILLIAMSONI — Blood orange red. Each, 40c.

GUARDIAN—One of the few perfectly formed narrow petaled English Cactus type that is free flowering under all climatic conditions. A luminous, attractive, brilliant currant red with large flowers, well supported on stiff wiry stems. Each, 40c.

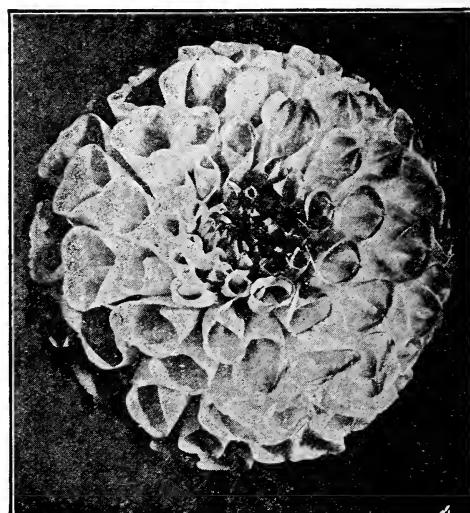
Salmon GEORGE WALTERS—It is one of the most popular large flowered Californians, producing its blooms very freely on long stiff stems, of a pleasing salmon with shrimp-pink shadings; a fine garden variety and good cut flower. Each, 40c.

Scarlet PATRIOT—Bright scarlet orange. Large, showy, attractive, pleasing and satisfactory. Each, 50c.

White PRIMA DONNA—A very delicate ivory white shading to violet, profuse bloomer, long stems, very attractive. Each, 35c.

Yellow AMBASSADOR—Color a soft yellow at the center with salmon, amber and pink shadings, gradually deepening towards the tips. The flowers are of largest size and set just right on perfect stems. A strong grower and free bloomer. Each, 60c.

DECORATIVE



Decorative Dahlia

The Decorative Dahlias are an intermediate form between the Show and Cactus types. Many beautiful varieties have been introduced, some with flat petals, others reflexed, incurved or curiously twisted; but nearly all are without

formality or stiffness, bearing their large perfectly formed blooms on long, stiff stems.

One each of these twelve beautiful decorative Dahlias, \$4.75, postpaid, or \$5.20 worth of Decorative Dahlias for \$4.75.

Lavender **MILLIONAIRE**—Most delicate lavender with a faint pink cast overshadowing it. The immense flower of unusual depth, stands erect on its stems. One of the very largest dahlias grown. Each, 50c.

Pink **QUEEN MARY**—Vivid light pink. Each 50c.

SYLVIA—Soft, pleasing, mauve-pink, changing to white in center, a fine cut flower. Each, 35c.

Purple **LE GRAND MANITOU**—Splashed purple on deep rose. Each, 40c.

Red **FIREBURST**—Brilliant scarlet red, flowers borne on stems of good length for cutting. Each, 40c.

OREGON BEAUTY—Its large size, brilliant color and free-flowering habit makes this a variety that stands out prominently among its neighbors; color, a rich, oriental red with golden sheen and garnet suffusion. Each, 35c.

Rose **ROSA NELL**—The flowers are large, of best decorative formations; borne on long stiff stems; in good shape to the end of the season. Color, brightest rose. A flower that always attracts attention. Each, 50c.

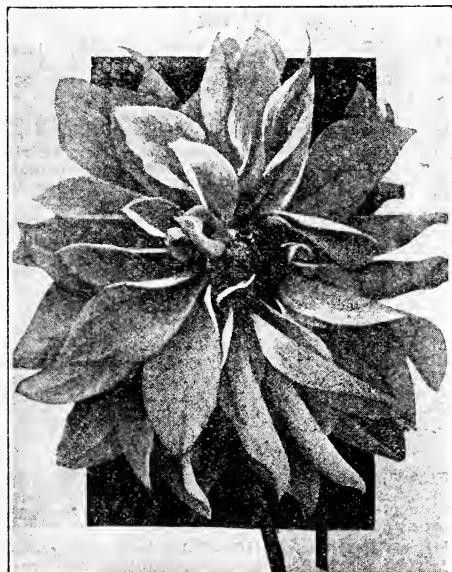
Scarlet **PRINCESS**—Orange scarlet, very handsome. Each, 50c.

GENERAL J. B. SETH—Brilliant scarlet to orange scarlet. Each, 40c.

White **MONT BLANC**—An early, free, continuous flowering creamy-white on good stiff stems. A most important cut flower variety. Each, 40c.

PURITY—One of the very best of the pure whites. The artistically arranged petals give the large flowers a full, fluffy appearance. Each, 40c.

Yellow **AVALON**—Pure clear yellow, the large flowers are very distinct and pleasing, always with a full center. One of the best of its color. Each, 50c.



Peony—Flowered

PEONY—FLOWERED

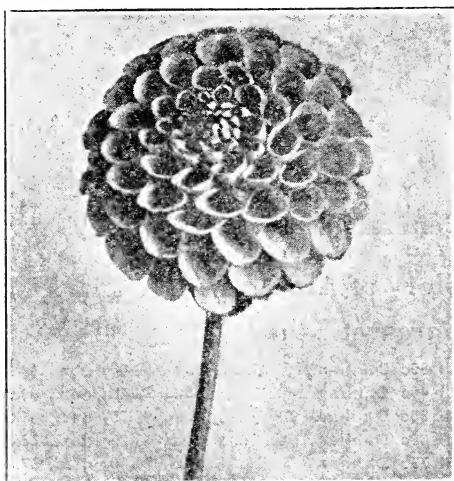
This type of Dahlia is particularly valuable on account of its artistic effect. The flowers are bold usually with broad petals, which in many varieties are greatly curled and twisted. The yellow center of the blooms is quite often completely hidden by the small incurving petals.

Amityville A beautiful silver pink, very attractive and pleasing. Each, 50c.

Princess Mary Vivid light pink. Each, 40c.

Polar Bear Pure white. Each, 40c.

POMPON



Pompon

The plants grow into neat little bushes which are covered with small, perfectly ball-shaped Dahlias, measuring up to 2 inches in diameter. The flowers are always double to the very center and in many varieties the petals are curled.

Alewine Pink-tinted lilac. Each, 35c.

Amber Queen Amber to apricot. Each, 35c.

Day Break Rosy pink. Each, 50c.

Gloria Maroon and white. Each, 35c.

Guiding Star The very best white. Each, 35c.

Little Jennie Primrose, yellow. Each, 35c. One of each, \$2.00.

SHOW

Show Dahlias are usually of solid color, but in certain varieties the tips of the petals may be of another. They are usually round, ball-shaped, and are always beautiful and compact.

Deelighted A very large pure white, greatly admired for its many good qualities. Each, 50c.



Show Dahlia

General Miles Light violet, very handsome and attractive.
Each, 50c.

Glory of Argonne Very beautiful pink and white. Each, 50c.

Margaret Saltus Lovely, soft pink.
Each, 40c.

All 35c Dahlias 1/2 doz., \$2.00; doz., \$3.50
All 40c Dahlias 1/2 doz., \$2.25; doz., \$4.00
All 50c Dahlias 1/2 doz., \$2.75; doz., \$5.00
All 60c Dahlias 1/2 doz., \$3.25; doz., \$6.00
All 75c Dahlias 1/2 doz., \$4.00; doz., \$7.50

Gladiolus

Gladiolus are the most satisfactory, desirable and popular of all the garden bulbs. Nothing else of the kind costs so little, grows and blooms so readily in any soil or climate as Gladiolus. They thrive and bloom with the least care and attention, and make a display which for brilliancy and beauty of coloring few bulbs can equal and none surpass. Plant any time from March to June.



Special prices postpaid, in straight or assorted lots:

	25	50	100
All 60c varieties.....	\$1.25	\$2.25	\$4.00
All 75c varieties.....	1.50	2.75	5.00
All \$1.00 varieties.....	2.00	3.50	6.00
All \$1.25 varieties.....	2.25	4.00	7.00

All named varieties of Gladiolus are number one bulbs and are not to be compared in quality to the smaller bulbs. These large bulbs cost more, but are well worth it, as they produce longer spikes, thus giving not only more flowers, but larger.

Blue

BARON HULOT—Long, graceful spikes, of good-sized, well-opened flowers, having a rich indigo-blue color. Very unique and beautiful shade, and never fails to attract attention.
2 for 25c; 1/2 doz., 75c; doz., \$1.25.

Lavender

BYRON L. SMITH—Delicate lavender, deepest at the edges of the petals and shading toward white in the center; gives the impression of an orchid. Well arranged on good stem. Each 10c; 1/2 doz., 60c; doz., \$1.00.

LOUISE—Exquisite shade of bright lavender growing brighter toward center.
3 for 25c; 1/2 doz., 50c; doz., 90c.

Maroon

GOLIATH—Deep purplish maroon; very large flowers on tall, strong stem; the best dark on the market. 2 for 25c; 1/2 doz., 75c; doz., \$1.25.

Orange

ORANGE QUEEN—A very warm tint; large, open flowers on good stem; justly considered one of the very choicest novelties in Prim. Hybrids. 2 for 25c; 1/2 doz., 75c; doz., \$1.25.

ALICE TIPLADY—Bright saffron-orange; large, open flowers on strong, stiff stem; excellent cutflower and forcer. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Pink

AMERICA—Delicate lavender pink, large flowers, borne on strong stems well placed. A very popular variety as a cut flower. 4 for 25c; 1/2 doz., 35c; doz., 60c.

EVELYN KIRTLAND—Very warm rose pink, deeper at the edges of the petals shading towards shell pink in the center, brilliant scarlet blotsches on the lower petals; strong stem, making it one of the most desirable varieties for cutting. 3 for 25c; 1/2 doz., 50c; doz., 90c.

LE MARECHAL FOCH—An early-flowering strong-growing variety with deep rose-pink flowers. The spikes are bold flowers, large and a good many in bloom at same time. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Salmon

MAIDENBLUSH—Superb light pink; flowers well placed on tall, slender stem; extra florist variety and the easiest and earliest forcer, oftentimes producing two and three spikes to the bulb. 3 for 25c; 1/2 doz., 40c; doz., 75c.

Red

FLAMING SWORD—Brilliant red, slightly overlaid with orange. Tall straight spikes with ten or more flowers open at a time. 3 for 25c; 1/2 doz., 50c; doz., 90c.

MRS. FRANCIS KING—Color is a very pleasant light scarlet, strikingly attractive. Separate flowers often measure 4 to 5 inches across and 5 to 6 flowers are open at one time. 4 for 25c; 1/2 doz., 35c; doz., 60c.

MRS. GEORGE W. MOULTON—Violet red, self color; a giant in flowers and stem; many flowers open at a time; good forcing. 3 for 25c; $\frac{1}{2}$ doz., 40c; doz., 75c.

Scarlet

SCARLET PRINCEPS—Flaming scarlet; large massive flowers, many open at a time, making a gorgeous display of dazzling red. 3 for 25c; $\frac{1}{2}$ doz., 40c; doz., 75c.

Spotted

HALLEY—The color is a delicate salmon-pink with a slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center.

4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

MRS. FRANK PENDLETON—The flowers are very large and well-expanded, of a lovely flushed salmon-pink with brilliant carmine, or deep blood-red blotches in the throat.

4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

White

LILY WHITE—A fine snow white variety. Good height and good sized blossoms. Six or seven blooms open at a time.

4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

PEACE—Flowers are large, of good form, correctly placed on a heavy, straight spike. Beautiful white, with pale lilac feathering on interior petals. 4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

Yellow

NIAGARA—Giant Yellow. In color the flowers are of a delightful cream shade with the two lower inside petals or segments blending to canary-yellow. The throat is splashed and tinted with carmine. The flower spike is very erect and stout and is wrapped with broad dark-green foliage. 3 for 25c; $\frac{1}{2}$ doz., 50c; doz., 90c.

SCHWABEN—A very vigorous grower, also very free flowering. A clear canary yellow shading to sulphur yellow when open.

3 for 25c; $\frac{1}{2}$ doz., 50c; doz., 90c.

SOUVENIR—Purest golden yellow of all Gladioli; large, beautifully shaped flowers on tall, slender stem.

3 for 25c; $\frac{1}{2}$ doz., 50c; doz., 90c.

All 60c varieties..... 50, \$2.25; 100, \$4.25

All 75c varieties..... 50, \$2.75; 100, \$5.25

All 90c varieties..... 50, \$3.25; 100, \$6.25

All \$1.00 varieties..... 50, \$3.50; 100, \$6.75

All \$1.25 varieties..... 50, \$4.50; 100, \$8.50

Ruffled Gladiolus

The ruffled varieties are very much admired and esteemed by all lovers of this beautiful flower, and without doubt is a great forward step and adds much to their beauty.

MARIE KUNDERD—Purest white with almost invisible pink lines in center of lower petals; finely ruffled and very early.

MONA LISA—Pale lavender pink, pure self-color; many ruffled flowers open at a time; a splendid variety.

PURPLE GLORY—This is not purple as its name would indicate, but a rich velvety maroon, with almost black blotches; beautifully ruffled.

SCARLANO—Bright orange scarlet, with blood red throat; finely ruffled; extra good cut-flower variety.

Any of these fine ruffled gladioli 15c each; $\frac{1}{2}$ doz., 85c; doz., \$1.50.

Clover Leaf Gladioli Mixtures

CLOVER LEAF MIXTURE—Gladioli mixtures can be purchased at almost any price and under almost any name. Our advice would be not to purchase small bulbs simply because they are quoted cheaper. Difference in cost is far more than compensated for in the better satisfaction obtained by planting the larger bulbs.

We are offering our Clover Leaf Mixture in two sized bulbs, the only difference being in size, as the mixtures are exactly alike.

No. 1 Mixture—First size bulbs, each, 5c; doz., 60c; 50, \$2.25; 100, \$4.00.

No. 2 Mixture—Second size bulbs, each, 5c; doz., 50c; 50, \$1.75; 100, \$3.00.



LILY OF THE VALLEY—One of the most satisfactory and charming spring flowering plants producing in profusion its delicate bell-shaped delightfully fragrant white flowers. Lillies of the Valley thrive in any common soil, are perfectly hardy, and will succeed in shady situation. Each, 5c; 25, \$1.25; 50, \$2.25; 100, \$4.00.

Peonies

We are giving the rating of the Peonies we list and you will notice that their rating is high.

The rating is established by a vote of the members of the American Peony Society. It is based on a scale of 10, this number representing the highest perfection in every way, which not one variety as yet has achieved. From 7 up one cannot go wrong on any variety, as these are all good. Scale of points adopted by the American Peony Society and on which the rating is based, is as follows:

Color	2.5
Form	1.5
Size	1.5
Distinctiveness	1.5
Substance	1.0
Stem	1.0
Pleasant odor	1.0
Total	10.0
No odor	0.5
Unpleasant	0.0

Besides the rating, the A. P. S. has also divided the types of flowers into eight classes, as follows:

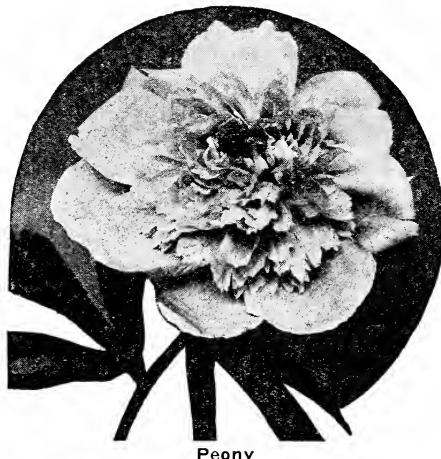
SINGLE—These have a single row of broad guard petals and the center filled with a mass of pollen-bearing stamens.

JAPANESE—In these, the doubling has just begun. They have a double row of wide guard petals and the stamens and anthers greatly enlarged into narrow petaloids, which form a round cushion.

ANEMONE—This is the next stage in the doubling process; here all the stamens are transformed into short, narrow petals, which also form a round, but wider, cushion.

SEMI-DOUBLE—These have several rows of wide guard petals and a center of partially formed petals, with stamens intermingled. The guard petals may or may not be of the same color shade, as the center petals.

CROWN—These have wide petals in the center of the flower, forming a high crown, around



Peony

which narrow, short petals form a ring or collar, surrounded again by wide guard petals.

BOMB—These have the center petals nearly uniform in width, distinct from the guard petals and forming a globe-shaped center without collar or crown.

SEMI-ROSE—Here all petals are uniformly wide, intermingled with a few pollen-bearing stamens.

ROSE—In this type the doubling process is completed, forming a perfect, full rose shape, without stamens.

We have also marked the varieties as to the time of flowering; following explains the letters used: V. E. means very early, E.—Early, M.—midseason, L. M.—late midseason, L.—late.

ALBATRE—Large, compact, globular rose type. Milk-white shaded ivory, wide center petals tinged lilac, edged with a minute line of carmine. L. M 8.7. Each, \$1.00.

ALEXANDER DUMAS—Medium size, light violet rose, creamy white collar of narrower petals, mingled with wide center petals. E 7.1. Each, 75c.

COURBONNE D'OR—Large, flat, semi-rose type. Pure white with ring of yellow stamens around a tuft of center petals tipped carmine. L. 8.1. Each, 75c.

DORCHESTER—Large compact rose type, pale hydrangea pink, sulphur white collar. L. 7.7. Each, \$1.00.

DUCHESS DE NEMOURS—Pure white crown, sulphur white collar, no crimson flecks. Crown type. E 8.1. Each, 60c.

EDULIS SUPERBA—Large loose flat crown. Bright mauve-pink. Crown type. V E 7.6. Each, 60c.

EUGENIE VERDIER—Large, medium, compact, flat, semi-rose type. Pale hydrangea-pink.

Collar lighter, center deeper, flecked crimson. E 8.6. Each, \$1.00.

EMPEROR NICHOLAS—Dark crimson rose type, tall strong grower. M 7.1. Each, \$1.00.

FELIX CROUSE—Rose type, brilliant ruby red, one of the best and most popular kinds for cut flowers. M 8.4. Each, \$1.00.

FESTIVA MAXIMA—Very large globular rose type. Pure white center, prominently flecked crimson; outer petals sometimes faint lilac. E 9.3. Each, 50c.

L'INDISPENSABLE—Globular rose type, lilac white shading to pale violet rose toward center. L. M 7.3. Each, \$1.00.

LIVINGSTONE—Very large compact perfect rose-type. Pale lilac-rose, with silver tips, central petals flecked carmine. L. 8.1. Each, \$1.25.

MARGUERITE GERARD—Large compact, semi-rose developing into a crown with stamens. Very pale hydrangea pink, fading to nearly white. Central petal flecked dark carmine. L 8.4. Each, 75c.

MME. CALOT—Large rose type. Pale hydrangea pink center shading darker. Collar tinged silver. V E 8.1. Each, 60c.

MME. BOLLET—Very compact globular rose-type, pale lilac pink, silvery reflex. E 7.4. Each, 50c.

MME. DE VERNEVILLE—Large very full bomb type. Pure white center blush when first open, fading to pure white, prominent carmine specks. E 7.9. Each, 75c.

MONS. JULIE ELIE—Color an ideal glossy, lilac-pink, shading to deeper rose at the base of the entire flower, overlaid with a sheen of silver very rose. Bomb type E 9.2. Each, \$1.50.

MONSIEUR KRELAGE—Semi-rose type, deep solferino red with amaranthine center, large flat flowers, erect grower and free bloomer. M 7.7. Each, \$1.00.

Special prices, postpaid, in straight or assorted lots:

	½ Doz.	Doz.
All \$.50 Paeonies	\$2.75	\$5.25
All .60 Paeonies	3.25	6.25
All .75 Paeonies	4.25	8.00
All 1.00 Paeonies	5.50	10.50
All 1.50 Paeonies	8.00	15.00

Mixed Colors

These mixed colors are not mixed and sold cheap because of small roots or inferior blooms but because names and colors have been misplaced. Very highly recommended.

Each, 50c; ½ doz., \$2.75; doz., \$5.00.

Tritoma, or "Red-Hot Poker"

TRITOMA FITZERI—Grows from four to six feet high; the flower-spike is often five feet high, and the flower measures twelve to fifteen inches long by four inches in diameter. They are a dazzling scarlet, lower half of flower tinged with rich orange. A clump makes a striking show.

Each 40c; ½ doz., \$2.25; doz., \$4.25.

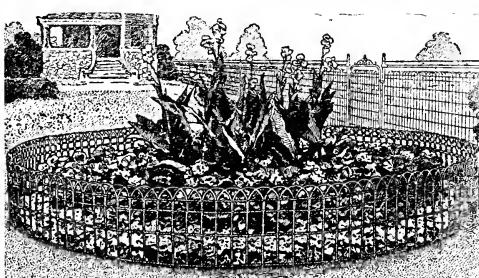
Flower-bed Border

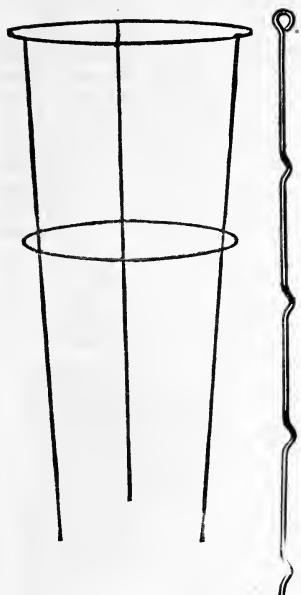
Gives premises a neat and well-kept appearance.

Will conform to any shape or size flower-bed, and can be taken up and used from year to year.

Pickets of galvanized wire spaced 3 inches apart. Cables of galvanized wire spaced 6 inches apart, except two top cables which are spaced 2½ inches apart.

Height, Inches from top to bottom	List Price per
of pickets	Linear Foot
16 in. to extend 12 in. above grade	\$0.12
22 in. to extend 18 in. above grade	.14





Peony and Plant Supports

Are made of strong galvanized wire. Will not rust. The very best support for peonies, tomatoes and such plants. Very strong and durable and can be used to advantage with a great number of different kinds of plants and flowers and will last for years.

Price of Plant Supports

No.	Wire Gauge	Diameter Top Ring	Diameter Lower Ring	Length	Weight
1.....	No. 6	14	12	30 in.	
2.....	No. 6	18	16	30 in.	
3.....	No. 3	24	16	36 in.	
					Each
Each	1/2 doz.	Doz.	25	50	100
No. 1.....	\$0.35	\$2.00	\$3.90	\$7.75	\$15.00
No. 2.....	.45	2.70	5.25	10.50	20.00
No. 3.....	.95	5.70	11.25	22.50	42.50
					1 1/2 lbs.
					38.00 2 1/2 lbs.
					83.00 3 1/2 lbs.

Add postage.

Plant Props

Are desirable for supporting all kinds of flowers and vegetables that need support, such as tomatoes, dahlias, etc.

They are made of 6-gauge galvanized wire, will not rust, and eliminate the yearly chore of hunting and cutting wood sticks.

They have a loop at the top which is electric welded and prevents all string from slipping out of loop.

There are four grooves at even intervals on the prop to tie the plant, according to its height.

Price of Plant Props

No.	Height.	Wire Gauge	Each	1/2 doz.	Doz.	25	50	100	Weight
4.....	36 in.	No. 6	\$0.10	\$0.60	\$1.10	\$2.25	\$4.00	\$7.50	4 lbs.
5.....	48 in.	No. 3	.20	1.20	2.25	4.00	7.50	14.00	9 lbs.
6.....	60 in.	No. 3	.25	1.35	2.50	4.50	8.50	16.50	11 lbs.
									Add postage.

Bamboo Stakes

PAINTED GREEN

Height	Doz.	25	50	100
3 feet.....	\$0.30	\$0.50	\$0.85	\$1.60
4 feet.....	.40	.70	1.25	2.25

Newport, Wash., Sept. 1, 1930.

The Inland Seed Co., Spokane, Wash.

Dear Sirs: We are now digging the onions grown from plants we purchased from you last spring and they look like prize winners, as they run from 14 1/2 inches in circumference to 15 1/4. They are greatly admired by all those who have seen them

HERMAN SCHIRMER.

Aurora, Oregon.

Inland Seed Co., Spokane, Wash.:

I am forwarding three onions, grown from onion plants purchased from you last spring. Please enter in your prize contest. From 1000 plants we raised 650 pounds of very fine, mild flavored onions.

HARRY B. SCHULTZ.

Onion Plants

Onion plants are being extensively used in some districts for producing large early matured onions, as matured onions can be secured from plants much sooner than from seed. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not guaranteed.

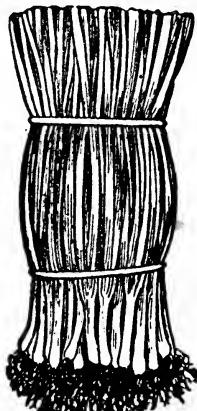
Prices, Postpaid

1 bundle	\$0.30
2 bundles .....	.50
3 bundles .....	.65
5 bundles	1.00
10 bundles	1.75
Crate 60 bundles	8.50

Crate weighs about 30 lbs.

Add postage to crate price.

Not less than one bundle sold.



Strawberries



MASTODON

Greatest Everbearing Strawberry

MASTODON is rightly named and without doubt is the largest and best everbearing strawberry. It is a very mastodon in the size of its big, red, luscious berries. Their glossy red color and bright yellow seeds give them a beautiful appearance, and their firm flesh and tough skin make them an excellent shipper. MASTODON is a heavy plant maker, producing an abundance of large sized bushy plants with heavy foliage that protects the berries from the hot sun in Summer and rain and cold in the Autumn.

PROGRESSIVE—As a home garden berry the Progressive fills the bill. The Progressive is a persistent bearer from the time plants are set in the spring until hard freezing, and again is the first to bloom in the following spring, and yields a good crop same time as other varieties. The quality of this berry is most excellent.

SUPERB—The fruit of Superb is large, glossy and of fine quality. It is not so productive and requires more care and attention than the Progressive, but makes up for this by being larger in size, presenting a better appearance, and having a finer flavor.

AROMA—Among the best of the late ripening varieties. Quality the best of any, comes nearer being the true strawberry flavor than all others. Its shipping qualities are of the best.

GLEN MARY—A bright, handsome, prolific, standard sort, grown the country over and perfectly reliable. Some large growers claim for this the par excellence in strawberries.

HOOD RIVER—The leading standard shipping variety. Dark red color, uniform size, good quality, but not heavy in yield. A specialty berry for the grower whose market is somewhat distant.

MARSHALL—Produces remarkably large, beautiful fruit, resembling the Glen Mary.

OREGON—A fadless, dark red exterior; the deep red color is extended clear to the center of the fruit. Exceptionally fine for canning. Any variety that we offer will fertilize it except Aroma.

SENATOR DUNLAP—Its color is a rich dark red, with glossy finish. It has become a very

popular variety, perhaps on account of its uniformity.

	PREPAID	25	50	100
Mastodon	\$0.50	\$1.00	\$1.50	\$3.00
Progressive	\$0.50	\$1.00	\$1.25	\$2.00
Superb	\$0.50	\$1.00	\$1.50	\$2.50
All Other Berries....	\$0.50	\$0.60	\$0.75	\$1.25
	NOT PREPAID			
	200	500		1000
Mastodon	\$4.50	\$10.25		\$20.00
Progressive	\$3.00	\$6.25		\$12.00
Superb	\$4.00	\$8.25		\$16.00
All Other Berries....	\$2.00	\$4.50		\$8.50

200 500 1000

Mastodon

Progressive

Superb

All Other Berries....

200 500 1000

Mastodon

Progressive

Superb

All Other Berries....

200 500 1000

Mastodon

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Mastodon

Plants and Roots

(NO PLANTS OR ROOTS SENT C. O. D.)

Plants—Flowering—Perennials and Annuals

Variety	Prices		Variety	Prices	
	Postpaid Doz.	Postpaid 100		Postpaid Doz.	Postpaid 100
Alyssum	\$0.35	\$3.50	Marigold	\$0.35	\$3.50
Asters	.35	3.50	Mignonette	.35	3.50
Carnations	.35	3.50	Pansies	.75	5.50
Cosmos	.35	3.50	Petunia	.35	3.50
Daisies	.35	3.50	Salvia	.35	3.50
Dahlias	.35	3.50	Snapdragons	.35	3.50
Dusty Miller	.35	3.50	Stocks	.35	3.50
Geraniums, 3-in. pots	.40 each	4.50 doz.	Verbenas	.35	3.50
Heliotropes	.35	3.50	Wallflowers	.35	3.50
Lobelia	.35	3.50	Zinnias	.40	4.50

Plants—Vegetables

Please note that the quotations made on non transplanted plants are for outdoor grown plants, hence price does not apply to plants started and grown in hot beds or under glass. Outdoor grown plants are usually ready about May 15.

Variety	POSTPAID			NOT POSTPAID	
	Doz.	50	100	500	1000
Brussels Sprouts	\$0.20	\$0.60	\$1.00	\$.....	\$.....

CABBAGE—

Early Jersey Wakefield, transplanted	.25	.75	1.00	3.75	7.00
Early Jersey Wakefield, not transplanted	.20	.50	.75	2.75	5.00
Danish Ball Head, not transplanted	.20	.50	.75	2.75	5.00
Red, not transplanted	.20	.50	.75	.....	.....
Copenhagen Market, not transplanted	.20	.50	.75	2.75	5.00

CAULIFLOWER—

Snowball, transplanted	.30	1.00	1.50	.....	.....
Snowball, not transplanted	.25	.75	1.00	3.75	7.00

CELERIAC—

White Plume, transplanted	.25	.75	1.25	3.25	6.00
White Plume, not transplanted	.20	.65	1.00	2.75	5.00
Golden Self-Blanching, transplanted	.25	.75	1.25	3.25	6.00
Golden Self-Blanching, not transplanted	.20	.65	1.00	2.75	5.00
Celeriac	.25	.75	1.25	.....	.....
Egg Plant	.30	1.00	1.50	4.25	8.00
Parsley	.25	1.00	1.25	.....	.....

PEPPERS—Transplanted—

Chinese Giant	.30	1.00	1.25	3.75	7.00
Ruby King, transplanted	.30	1.00	1.25	3.75	7.00
Bull Nose, transplanted	.30	1.00	1.25	3.75	7.00
Cayenne, transplanted	.30	1.00	1.25	3.75	7.00
Cherry, transplanted	.30	1.00	1.25	3.75	7.00

TOMATOES—

Earliana, transplanted	.30	1.00	1.50	4.75	9.00
Earliana, not transplanted	.25	.75	1.25	2.75	5.00
Bonny Best, transplanted	.30	1.00	1.50	4.75	9.00
Bonny Best, not transplanted	.25	.75	1.00	2.75	5.00
Husk or Ground Cherry, transplanted	.30	1.00	1.50	.....	.....

Roots

Variety

ASPARAGUS—

Palmetto, 1 year old	\$0.25	\$0.75	\$1.00	\$3.25	\$6.00
Palmetto, 2 years old	.40	.85	1.50	5.25	10.00
Palmetto, 3 years old	.50	1.50	2.25	7.75	15.00
Hop	.75	2.75	5.00	7.75	15.00
Horseradish	.30	1.00	1.50	5.50	10.00
Mint	.75	2.50	4.00	.....	.....

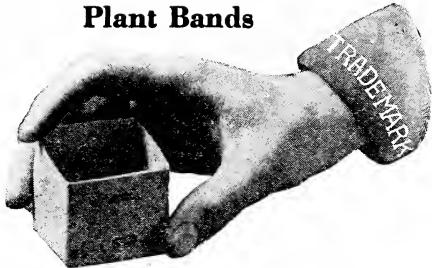
POSTPAID

NOT POSTPAID

	Each	Doz.	50	100	500
Chives, small bunch	\$0.15	\$1.25	\$.....	\$.....	\$.....
Rhubarb, 1 year old	.15	1.25	3.25	5.00	15.00
Rhubarb, 2 years old	.25	1.75	4.50	8.00	30.00

PRICES NOT GUARANTEED, BUT ARE SUBJECT TO CHANGE

Plant Bands



They come already folded and set up. All you have to do is open them, set them in a box close together, and fill with dirt, and put in the plant. The simplest way to handle plants for transplanting is to grow them in our Ready-to-Use Plant Bands. They make an ideal worm guard. Size 2x2 inches.

Case 5,000	\$15.00 per case
1,000	\$3.50
500	2.00
250	1.25
Doz. lots .....	.10

Packed 250 in carton.
Weight of 250, 2½ lbs. Add postage.

Plant Pots

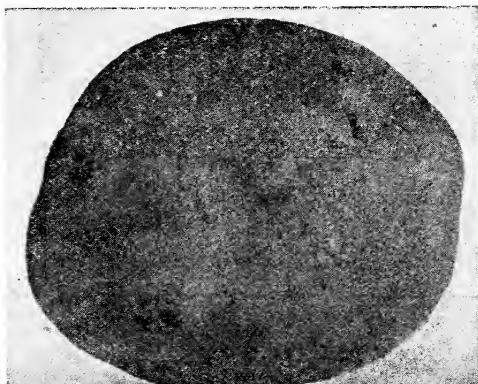
Plant pots and plant bands are made exactly of the same material, the only difference being that bands have not any bottom while pots have. You will also notice difference in size. 3x3 inches.

Case 2,000	\$11.50 per case
1,000	\$6.50
500	3.50
250	2.00
Dozen lots .....	.15

Packed 250 in carton.
Weight of 250, 5½ lbs. Add postage.

Potatoes

Potatoes can be grown in any soil provided it is well drained, but if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop. It is best to put the manure on one year before the potatoes are to be planted, and in no case raw stable manure should be used, as it is liable to produce scab. In cutting potatoes



Bliss Triumph or Six Weeks

for planting, do not cut the pieces too small and be sure to have one to three eyes on each piece planted. The constant use of very small tubers should be avoided, or they are likely to run out.

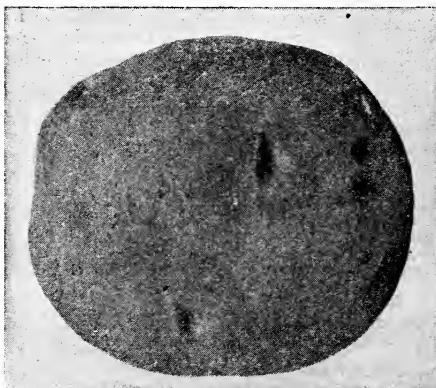
PRICES—Owing to the great uncertainty regarding values we are unable to make definite prices at present.

Write for prices, stating amount wanted.

Early

BLISS TRIUMPH OR SIX WEEKS—This is recognized as being one of the very earliest varieties grown, and in addition it is also one of the best yielders of the early varieties. Besides these two very important advantages, it possesses a third, namely: its quality.

OHIO—A leading early sort. Round, short, and thick tubers, smooth and solid; cooks dry and mealy and matures very early.



Earliest of All or Early Eureka

EARLIEST OF ALL OR EARLY EUREKA—Is a shallow-eyed white-skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties. While it is a very early potato, it is also a good keeper.

Medium

IRISH COBBLER—The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is smooth, finely netted, and white in color. Flesh white, of fine quality and flavor.

Late

NETTED GEM—The hardiest, most vigorous in growth, most productive, and the best in table quality of all potatoes. It has proved to be unequalled for main crop. The vines are strong, with deep green foliage. In form the tubers are medium long. The eyes are small and there is very little waste in paring. The skin is thin and very smooth with the exception of very small depressions which give it the appearance of being netted and from which it derives its name. The flesh is fine grained and cooks up mealy white. It is very free from scale and one of the very best keepers on the market.

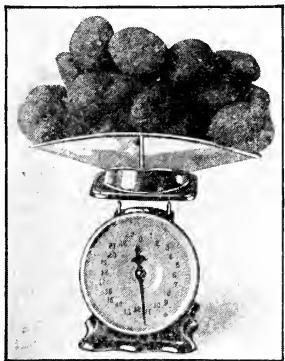
Write for prices, stating amount wanted.

CERTIFIED STOCK

The present arrangement for certified potatoes in the states of Idaho and Washington are a blue tag and a red tag. The blue tag is certified as to variety, freedom of disease and type and has been inspected at least twice in the field, also inspected at time of shipment. Size, from 2 to 12 ounces.

Red tag shows that potatoes have had at least two field inspections but have not been inspected at time of shipment. For this reason we recommend the blue tag.

Write for prices, stating amount wanted.

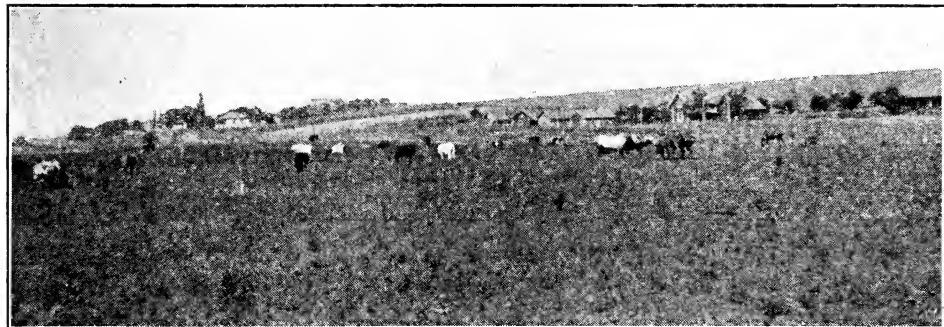


Treated with Semesan Bell



Netted Gem

Clovers



A Scene in the Palouse Country—Sweet Clover.

Great care should be exercised in purchasing grass and clover seeds. This is even more important than with other seeds, for, on account of being perennials, and the land not being cultivated, the farmer has not an opportunity to cultivate and thus destroy any weed seeds that might be sown with grasses and clovers.

Owing to the market changes we cannot quote prices in quantities. When ready to buy, write us for prices, stating quantity wanted, or if you send money, we will ship seed to cover amount received.

Alfalfa or Lucerne

While what is known as the common alfalfa is the most popular and almost exclusively used, still there has been for a number of years other named varieties each claiming to be superior to the common alfalfa. The most widely advertised of these varieties is what is known as Grimm alfalfa. The originator of this variety has the following to say concerning it: "The Grimm alfalfa is much hardier than the ordi-

nary kinds. It not only endures extremely low temperatures, but it can be cut with greater safety late in the fall and will bear more abuse in the way of pasturage than any other plant that has been compared with it until this time."

Write for prices on both Grimm and common alfalfa; state quantity wanted.

ALSIKE, or SWEDISH (*Trifolium Hybridum*)

—A perfect hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay and under favorable conditions may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drouth and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. Write for prices, stating amount wanted.



Alsike Clover. Write for prices, stating amount wanted.

RED MAMMOTH — Being a rank grower makes it most valuable for fertilizing purposes. Foliage, flowers and stem much darker than common Red Clover; ripens later than the latter, about the time Timothy, Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Write for prices, stating amount wanted.

RED MEDIUM (*Trifolium Pratense*) — The standard clover for all purposes, either hay, pasture or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It yields the heaviest crop of any clover except alfalfa, and makes superior hay — especially if mixed with timothy — either for dairy cows or for general use. Write for prices, stating amount wanted.



RED CLOVER.

WHITE DUTCH—(*Trifolium Repens*)—A low, close-growing clover with white blossoms, very fragrant. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. Fancy for lawn. Lb., 65c; add postage. Write for prices, stating amount wanted.

Sweet Clover

With a favorable season and good stand it can be pastured without injury to plant in about 10 weeks. First season can pasture or cut crop of hay; second season pasture, hay or seed. Most

valuable as continuous pasture, when it will reseed itself without thought or care of the grower.

The best results are obtained by sowing in early spring.

WHITE BLOSSOM—(*Melilotus Alba*)—This lives two years and then dies. It is the variety commonly referred to when "sweet clover" is mentioned and is the best for general use.

It is an erect branching biennial plant with woody stems, the first season growing 1 1/2 to 3 feet high and developing a large root, in which is stored food material for the second season's growth. The growth the second season usually reaches a height of 4 to 7 feet. This seed is hulled and scarified.

YELLOW BLOSSOM—(*Melilotus Officinalis*)—This variety belongs to the same family as the White Blossom, but it is not so prolific in growth, will not produce so large a tonnage, does not grow quite so tall, but is from ten days to three weeks earlier. This seed is hulled and scarified.

Write for prices, stating amount wanted.

Grasses

BENT-CREEPING—Being of fine texture this grass is most valuable for lawns and ideal for putting greens. It is of rapid growth and spreading habit and makes a strong, enduring turf. Lb., \$1.25; add postage.

BLUE CANADIAN (*Pea Compressa*) — A hardy variety growing on poorest and driest soils. Short (6 to 8 inches), hardy and wiry, but high in nutritive value. Decidedly blue in color. Stems flattened. Invaluable for use on steep places or exposed situations. Write for prices, stating quantity wanted.

BLUE, ENGLISH OR MEADOW FESCUE (*Festuca Pratensis*)—A variety growing three to four feet high. Roots deep, and resists drouth better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pasture. Valuable to mix with other kinds. Write for prices, stating quantity wanted.



KENTUCKY
BLUE GRASS.

BLUE KENTUCKY — This makes the best, sweetest and most nutritious pasture for all kinds of stock. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout as to form a tough sod. Blue grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass." Lb., 65c; add postage. Write for prices, stating quantity wanted.

BROMUS INERMIS—(*Awnless Brome Grass*)—Withstands drouth well. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It

bears up well under hot summer suns. It is an abundant producer of leaves and is much relished as pasture and hay. Write for prices, stating amount wanted.

FESCUE CHEWING — (*Festuca fallax*) — Chewings fescue is a small, hardy, low growing grass producing very fine dark green leaves, which rarely exceed 6 inches in height and in growing have a dense tuft forming habit.

Lb., 65c, postpaid.

FESCUE HARD (*Festuca durinscula*) — Differs from sheep's fescue in having harsher, firmer and thicker blades and forms smaller tufts. Thrives in the shade. Deep green in color, it grows to the ground and stands clipping and pasturing well. Reaches a height of 20 to 25 inches. Lb., 65c, postpaid.

FESCUE SHEEP'S — (*Festuca ovina*) — Sheep's Fescue is a bunch grass, forming dense tufts three to six inches in diameter, with numerous stiff, rather sharp, nearly erect, bluish gray leaves, two to four inches long. The plant grows 20 to 25 inches high. While the grass is decidedly tough and has a tendency to get woody it is nutritious and eagerly eaten by sheep and to a less degree by cattle. It does fairly well on light, sandy soils where the other more valuable pasture grasses fail.

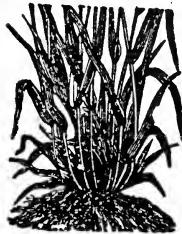
Lb., 65c, postpaid.



RED TOP GRASS.



ORCHARD GRASS.



RED TOP (*Agrostis Vulgaris*) — A valuable grass for moist, rich soils where it thrives very luxuriantly. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close, as, if it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass.

Hulled Seed — Write for prices, stating the amount wanted.

ORCHARD — It stands the drouth, grows well in the shade, does well in wet or poor ground. This grass furnishes excellent pasture three weeks before any other, and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. Write for prices, stating quantity wanted.

RYE, ENGLISH (*Lolium Percune*) — This is a valuable pasture grass which will bear close cropping. Produces an abundance of foliage, which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better in cool, moist locations. Write for prices, stating quantity wanted.

Reed Canary Grass

(*Phalaris Arundinacea*)

A very tall grass growing from six to seven feet high. Known as water grass because of its natural affinity to marshy places. It grows and thrives and becomes a permanent pasture in ditches, ponds and marshy places. Its great advantage is that it produces an abundance of feed in what has been waste places, and not only an abundance of feed but a highly nutritious feed, which is relished by horses.

Lb., \$1.00. Postage paid.

RYE—ITALIAN (*Lolium Italicum*) — A quick-growing grass, attaining a height of 2½ to 4 feet. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Write for prices, stating quantity wanted.

SUDAN GRASS is strictly an annual and dies each year, reaching a height of from seven to nine feet. The stems are small and rarely thicker than a lead pencil. The plant stools wonderfully and produces under favorable conditions as many as 100 stalks from a single root.

SEEDING — Sudan Grass should not be planted until the soil has become warm in the spring. It can be sown any time during the summer as a catch crop so long as 70 to 80 days intervene before the date of the first expected frost. The grass stools abundantly after first cutting.

Lb., 20c; add postage. Write for prices, stating quantity wanted.

TIMOTHY — On moist, loamy or clay soils it produces a larger hay crop than any other grass. It is not so well suited for light, sandy soils. Though preferring moist, temperate climate, it withstands extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, as, if left later, the hay becomes hard and coarse. It is often sown along with Red Clover, and the nutritive value of the hay is greatly increased by the mixture. Height, 2 to 3 feet. Write for prices, stating amount wanted.



TIMOTHY.

Lawn Grass

The most important thing to consider in selecting seed for lawn grass is to obtain a proper mixture. Our Clover Leaf mixture will give a green, smooth, velvety sod with a thick

bottom and free from such varieties of common grasses as produce clumps. Do not put stable manure on your lawn, as it adds to the many weeds already in the soil, and if not broken up, the lumps of manure will smother the young grass.

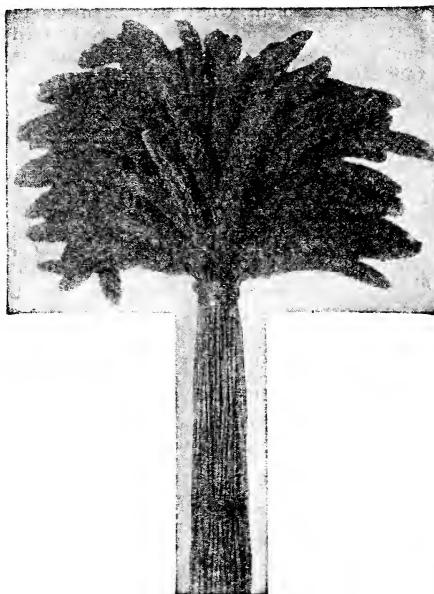
In order to keep a lawn continually beautiful, it should receive applications of Vigoro.

CLOVER LEAF LAWN GRASS—Lb. 65c, add postage. Write for prices, stating quantity wanted.

Millets

The Millets are a valuable crop for the farmer who has lost his seeding, or for some other reason expects to be short of hay, for in 8 or 10 weeks from sowing it is ready to cut for hay.

Millet can be sown as early as the middle of May, or as late as July 10th, although when sown July 10th, the crop comes so late in September that it is hard to cure on account of the cool weather and shorter days.



Golden Millet

GOLDEN—This grows very rank and is one of the best varieties for hay or fodder. On good rich soil it will make a growth of 4 or 5 feet high, and although the hay may seem coarse, yet it is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily.

HOGS—Very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green; thus, if cut promptly can be threshed for the seed, while the hay after being threshed will make excellent fodder.

WHITE WONDER MILLET—The most striking feature of White Wonder Millet is the size of the heads, making it a very heavy yielder. The heads will run from eight up to eighteen inches and a single head will have as many as 15,000 seeds.

SIBERIAN, OR RUSSIAN—Is claimed to be from two to three weeks earlier than the Golden Millet, that it is a much heavier cropper, that

the hay is much finer, stalks more elastic and grows much taller, that it is rustproof, and being of stooling habit, requires much less seed per acre.

Write for prices on Millets, stating quantity wanted.

Peas, Field

Field Peas are a very profitable crop and should be grown very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are very fattening.

CANADIAN WHITE—A leading kind; seed almost white; a heavy cropper. Lb., 15c, postpaid.

GREEN—A very productive variety yielding as much as Canadians, but has less straw and is earlier. Lb., 15c, postpaid.

COW—Cow Peas are more tender than Canada or Field Peas and should not be sown until corn planting time. Cow Peas, being of very rapid growth during the warm weather, can be sown as late as the middle of July with reasonable assurance of a profitable crop, either for harvesting or plowing under. Are really small beans of vigorous vining habit and heavy foliage.

NEW ERA COW PEAS—A new, extra early variety, the quickest growing of any of the Cow Peas, maturing in about 60 days; specially adapted for planting north. Lb., 25c, postpaid.

WHIPPOORWILL—A brown, speckled, medium sized pea. A very prolific seed yielder; matures about ten days later than the New Era; upright and vigorous grower. Lb., 25c, postpaid.

Write for price on all field peas, stating variety and amount wanted.

Rape

DWARF ESSEX—Perfectly hardy and of remarkable fattening properties. Easily grown. Pigs, sheep and cattle are all extremely fond of it. A very rank grower and bears heavy manuring and high cultivating. Sow at intervals of several weeks and secure a supply of good feed. If soil is rich and clean, sow broadcast, otherwise in drills and cultivate same as corn. Lb., 20c, postpaid. Write for prices, stating amount wanted.

Buckwheat

JAPANESE—This variety excels all others; yield much heavier; ripens one week to ten days earlier; stands up better and makes better flour. Excellent for bee pasture. Lb., 20c, postpaid.

SILVER HULL—A very good and popular variety. Grain is of light gray color; has a thin husk; matures early and yields heavy. A good milling variety. Lb., 20c, postpaid.

Write for prices on buckwheat, stating kind and amount wanted.

Sunflowers

SUNFLOWER—(Large Russian) — Although the sunflower (*Helianthus Annuus*) is a native of North America, and has grown in nearly every garden in this country, it is only in recent years that it has been recognized as a forage plant. The earliest record of sunflower cultivation is found in Spain about 350 years ago. It adapts itself to a wide range of soil and climate, responding to rich soil and good

cultivation much like the corn plant. It has been extensively cultivated for its seed, which are very rich in oil. In this country, the seed has been extensively used as poultry food. Lb., 15c; add postage. Write for prices, stating amount wanted.

Vetches

SPRING — A pealike plant grown extensively in England and to a considerable extent in Canada for stock feeding, but not as much used in the United States as it should be. Lb., 15c. Add postage.

WINTER — **SAND** OR **HAIRY** (*Vicia Villosa*) — It belongs to the pea family, but the vines are much longer and the foliage more abundant. It is advisable to sow oats, barley or rye, etc., with Vetch, which serves as a support for the plant. A sowing in August or September covers the ground before winter. Can also be sown in April

and will be ready to cut by the middle of July, the second growth affording excellent hog pasture during the summer. The yield of forage varies from ten to fifteen tons per acre, equal to three or four tons when cured as dry hay. Lb., 20c; add postage.

Write for prices on vetches, stating variety and amount wanted.

Miscellaneous Field Seeds

Write for prices on all varieties of field seeds, stating quantity wanted.

FETERITA — It belongs to the Sorghum family. The advantages claimed for Feterita are its drought-resisting qualities, its heavy yield, its earliness, its stooling propensities and its freedom from insect pests. Lb., 20c; add postage.

FLAX SEED (Recleaned for planting) — Lb., 20c; add postage.

KAFFIR CORN — Grows 4 to 5 feet high. The stem or stalk bears numerous wide leaves. The stalks are brittle and juicy, not hardening like other varieties of sorghum. Lb., 20c; add postage.

KALE — (Thousand Headed) — The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government stations. Postpaid, oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; lb., \$1.00.

LENTILS — Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are used largely for soups. The leafy stalks make good forage. Lb., 20c; add postage.



SUGAR CANE is supposed to be grown to advantage any place where you can produce a good crop of corn.

EARLY AMBER — This is the earliest, richest and altogether the best sort for northern latitudes. Lb., 25c; add postage.

Grain

In securing your seed grain it should be selected because that each grain has been well filled and thoroughly matured, because it has all ripened at the same time, and because of its freeness from all seeds that can not be separated from the grain. Kindly write us, asking for prices and state the amount wanted. Stating the amount is very important, as we do not know whether an inquirer wants one hundred pounds or a ton. In case amount is not stated we always quote price on a small amount. You are therefore depriving yourself of our best prices should you want a quantity.

Write for prices on all varieties of grain, stating kind and amount wanted.

Wheat

There is wheat and wheat, and it is penny wise and pound foolish to sow inferior quality. This inferior quality may be because the grains have not been fully developed or on account of impurity, or on account of improper cleaning. We guard against all three, hence our quality is right.

Winter — Jones Fife, Martin Amber, Gold Coin, Ridit.

Spring — Bluestem, Marquis, Early Bart, Federation.

Write for prices, stating quantity wanted.

Barley

BEARDLESS — Two strong features distinguish the Beardless Barley above all other barleys; first, its great yielding qualities; second, its freedom from the troublesome beard. It is on this account not only much more agreeable to handle in threshing than other barleys, but it is much safer and better to feed to livestock. As a fattening agent for swine Beardless Barley is particularly valuable. Ask for price.

Rye

Rye is a valuable and very hardy crop, producing green fodder either in the early spring or late fall. It matures before other crops come in and can be sown on soil too poor for other cereals. Rye does not exhaust the soil as do other grains and can be cultivated longer on the same land than any other crop on the farm.

SPRING RYE — Spring Rye is an excellent catch crop where winter grain has been killed out, or for sowing where a full crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Ask for price.

WINTER RYE — Rosen Rye is a stiff-strawed, large headed variety which ordinarily has four full rows of grain on over 99 per cent of its heads. It yields much better than the common winter rye, is very hardy and seldom winterkills.

Rosen Rye outyields common rye from 25 to 50 per cent. Ask for price.

Write for prices, stating amount wanted, or we will fill all orders at price prevailing on date of shipment, sending grain for the amount of remittance received. Price not guaranteed.

Oats

We handle the varieties mostly grown. Our quality will be as good as careful selection and recleaning can make them.

Markton Oats

The outstanding features of Markton oats are their immunity to covered smut and their superior yield. It is an erect, mid-tall, mid-season variety with a branching panicle. One of their distinguishing characteristics is the presence of



Markton Oats

hairs on the clump at the nodes. The kernels of Markton are yellowish white, long and slender and have a rather thin hull.

The lot of seed from which the Markton oat was later selected was obtained in 1904 by M. A. Carleton from the exhibit of Louis Dreyfus & Co., at the Louisiana Purchase Exposition, held in St. Louis, Mo. The original source of the seed was recorded as Dedeagatch, Turkey.

They were brought to the Washington Experiment Station from the Sherman County Branch Station at Moro, Oregon, in 1919. They were included in the experiments at Pullman, where their comparative yield was determined and in addition found to be immune to covered smut. The following yield data is taken from the annual report of the experiment station.

Comparative Yields of Oats, Taking Banner as the Standard

Variety	Yield 1926	No. Tests	Per Acre Yld. Cent Bushels
Markton	65.4	9	106.8 87.5
Victory	64.7	8	102.1 83.6
Banner	64.4	25	100.0 81.9
Swedish Select	53.4	25	91.2 74.7
Sixty Day	58.1	25	82.5 67.6

It is fortunate that the characters of immunity to smut, high yield and good quality could be combined in a single variety of oats.

Write for prices, stating quantity wanted.

Nursery Stock

In compliance with requests from many of our customers for nursery stock we are listing the following varieties, but desire to state that this nursery stock is not of our own growing, but that we are securing it from sources that we believe to be thoroughly reliable and have every reason to believe that it can be relied upon as being dependable and trustworthy. Make an examination of shrubbery and trees as soon as received, and should there be any reason for complaint we ask that this be reported at once, as the growth of the root depends largely upon manner of planting and care afterwards. Therefore, if a root is in good condition when received, we feel that we have done our part and cannot be responsible for non-growth, as it is evident that the reason for non-growth has been due to some local conditions for which we cannot be held responsible.

Add 10c for postage when your order only calls for one root and 3c per root when three or more are ordered. This will equalize postage charges, though in some cases this postage will be too much while in other instances it will be too little.

VINES AND CLIMBERS

IVIES

BOSTON IVY—Japanese Ivy. Best known and most popular climber for chimney, brick and stonework. Graceful and showy foliage, thrives under all conditions. Each, 50c, 75c.

ENGELMANNI—Deeply cut leaves which turn to a beautiful crimson in fall. Clings to walls without aid of artificial support. Vigorous growth. Each, 50c, 75c.

VIRGINIA CREEPER OR AMERICAN IVY—Fast growing, hardy creeper, massive foliage, deeply cut leaves which turn to a beautiful crimson in fall. One of the very best for porches, trees, rocky slopes, etc. Each 50c.

CLEMATIS

Popular vines for covering porches, trellises and arbors, and to climb over tree trunks, posts and fences. They are free flowering and very showy. The first two are large flowered varieties, blooming in late spring and summer.

HENRYI—Large single white flower, most popular of its color. Each, \$1.00.

JACKMANI—Large velvety dark purple flower, very showy.
1 year old, 50c; 2 year old, \$1.00.

PANICULATA—The late flowering Japanese variety with panicles of small white fragrant flowers borne in great profusion in early fall. Very desirable, entirely hardy. Each, 50c, 75c.

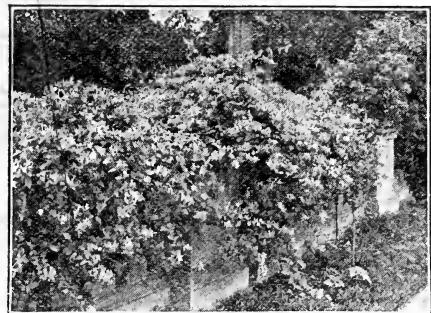
RAMONA—Large, light lavender.
2 year old, \$1.00.

HONEYSUCKLES

HONEYSUCKLE—Favorite vines with fragrant flowers, strong growers and well adapted for trellis work, on fences and verandas and especially beautiful when allowed to grow in wild and natural way, for covering sheds, rock heaps, old tree stumps and unsightly places. Their vining qualities are all that can be desired, but the delightful fragrance of their flowers makes their strongest bid for favor.

BELGIA OR EVERBLOOMING—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each, 50c, 75c.

HALL'S JAPAN—Practically evergreen, retaining its rich dark green foliage most of the



Honeysuckle

winter. Blooms continuously from June until frost; fragrant, white and yellow flowers, in great abundance. Each, 50c, 75c.

SCARLET TRUMPET—Trumpet shaped flowers of bright scarlet.

Each, 50c, 75c; add postage.

WISTARIAS

Strong-growing, free-flowering climbers. They are hardy and ornamental. When well established, a greater abundance of the lovely flowers can be had by rather severe pruning, cutting back the lateral shoots to short spurs and heading back the leaders. The grafted Japanese varieties are strongly recommended as superior to the seedlings.

JAPANESE PURPLE—Grafted purple variety, vigorous and tall growing vine with bright green foliage, flower light purple in loose drooping racemes 12 to 30 inches long. Fine anywhere that a vine may be used but especially good on arbors and pergolas where the long racemes may hang through. Price, \$2.50.

JAPANESE WHITE—A grafted white flowered form, racemes very long and beautiful. Each, \$2.50.

Common purple, each 75c, \$1.00, \$1.50.

Common white, each 75c, \$1.00, \$1.50.

Add postage.

BEST HARDY PERPETUAL ROSES

PLANTING DIRECTIONS

If roses are planted in the ordinary way with the tops left exposed to the sun and drying winds of the spring, they are almost sure to shrivel before time for them to grow, and thus the plants are greatly endangered, while if the following suggestions are followed, success is almost certain. The plants should be unpacked as soon as received from the nursery and planted, if possible. If unable to plant them immediately upon receiving them, they should be heeled-in deep (buried) in moist, loose earth, waiting time to plant. In planting they should be set two or three inches deeper than they stood in the nursery in well-prepared, damp soil, but not wet enough to be muddy. If the soil is dry it is well to plant the roses solidly, then wet thoroughly and after the water has soaked away, throw up a small mound of earth five or six inches high around the plant. Then cut off the branches about one inch above the mound, leaving it this way for ten days or two weeks, or until the buds start and show a desire to grow, when the dirt mound can be raked down. Roses handled in this way hardly ever

fail to make a good start and a very satisfactory growth.

The planting directions here given are applicable to a great extent to all shrubbery, fruit and ornamental trees as well as evergreens. Our nursery man states that less than one per cent of all shrubbery and trees planted by his own force fail to grow. You cannot expect roots of any kind to grow unless treated properly.



Two Year Old. Each, 58c; add postage.

AMERICAN BEAUTY—One of the largest, sweetest and best; rich rosy crimson, shaded and veined in a most charming manner.

CONRAD F. MEYER—A most valuable addition to the list of hardy, free-blooming roses. The color is beautiful pure silvery pink.

FRAU KARL DRUSCHKI—Many rose-lovers call this beautiful rose "Snow-Queen"; others simply call it the "White Rose." The blooms are very large, sometimes reaching nearly 6 inches in diameter. The growth of the plant is strong and vigorous and it bears blooms abundantly in June.

GENERAL JACQUEMINOT—The old favorite "Jack" Rose is still popular. The blossoms are large, full, and globular, having an excellent cup-shaped form. In color they are brilliant scarlet-crimson, with deeper veinings toward the petal bases.

GEORGE AREND'S—Strong-growing plant, bearing an abundance of well-shaped delicate pink flowers. A very satisfactory sort which has been largely planted.

GEORGE DICKSON—It is one of the best dark roses in existence. The blooms are as nearly perfect as those of any rose, large, full and fragrant. The color is deep velvety crimson, almost black on the front of the petals, while the reverse side is heavily and deeply veined with rich crimson-maroon.

GRUSS AN TEPLITZ—One of the best garden roses, giving many beautiful flowers from early June until frost kills the buds. The flowers are crimson-scarlet, bright enough to attract the attention of the observer, but not vivid enough to throw other sorts into the background.

HIS MAJESTY—A magnificent new rose of wonderful growth and hardiness. Produces blooms of immense size on fine long canes. Color, dark crimson, shaded deep vermillion towards the edges.

HUGH DICKSON—Intense crimson, shaded scarlet; very large; full and magnificent form, with high pointed center. Delightful perfume. A gold medal rose.

MRS. JOHN LAING—Extremely large blooms of soft pink. Long buds; cup-shaped, fragrant flowers. Strong grower, free bloomer. A very popular rose.

PAUL NEYRON—The largest rose in existence, frequently reaching 6 inches in diameter. The color is clear pink, shading to soft rose; has a delightful fragrance. The plant is a strong, heavy grower and blooms several times during the season.

URICH BRUNNER—Extra-large flowers of light red, bordering on scarlet or crimson—a shade of red distinctly its own. The flowers are borne in profusion on long stems. A very vigorous grower. A variety of standard excellence.

HARDY EVERBLOOMING HYBRID TEA ROSES

Two Year Old. Each, 58c, except where quoted; add postage.

Cream and White

FRAU KARL DRUSCHKI—The white American Beauty. Makes splendid buds and immense flowers.

DUCHESS OF WELLINGTON—Intense saffron-yellow stained with rich crimson. Very large and fine form. Beautiful in bud as well as open flower. Each, 75c.

ETOILE DE LYON—Clear, bright, golden yellow; makes beautiful buds and is very double and sweet.

KAISSERIN AUGUSTA VICTORIA—Pure white, does not pink when planted out; splendid large buds and superb, full, double blooms. A most sturdy grower, blooming steadily from early spring until late frost. Each, 75c.

Crimson and Red

EDWARD MAWLEY—One of the finest roses known. The buds are deep purplish crimson, opening to extra-large, perfectly formed blooms of dark blackish crimson.

ETOILE DE FRANCE—Intensely brilliant crimson. A very free bloomer and a most excellent rose.

HOOSIER BEAUTY—A large, full flower with well shaped buds; color is an exceptionally attractive glowing, velvet crimson. Each, 75c.

MME. EDOUARD HERRIOT—Coral-red, shaded with yellow and bright rosy scarlet. Made famous when it won the London Daily Mail Gold Cup in 1912. Strong with bright green, glossy foliage. Each, 75c.

RADIANCE RED—A glowing crimson. Very fine. Each, 75c.

RICHMOND—Originated by an experienced American grower. The blooms are very large and full. The color is a beautiful scarlet-crimson. For several years Richmond has been considered one of the best roses of American origin, and it well merits this distinction.

Pink Shades

CECIL BRUNNER—Bright rose, shaded salmon-pink. The best of the miniature Roses.

KILLARNEY BRILLIANT—The introducers describe it in these glowing words: "An improvement on the original Pink Killarney, because of its more brilliant color, which is almost crimson in bright weather. One of the best of the recent originations and very popular."

LA FRANCE—This was the very first Hybrid Tea Rose. The flowers are large and have a beautiful globular shape. In color a bright pink on outside of petals, and a lovely silvery pink on the inside. The leather-like foliage is deep beech green in color, contrasting nicely with the handsome blooms.

MADAME ABEL CHATENAY—A good grow-

er and perpetual bloomer; large and beautiful in bud and bloom. Deep rose pink.

MME. CAROLINE TESTOUT—A grand rose, with large full flowers and handsome buds; rich pink. The hardiest of the Teas.

OPHELIA—Brilliant, salmon-shaded with rose on outer edges of petals with a heart of glowing peach-pink and orange-yellow blendings; handsome bright foliage, immune to mildew. Each, 75c.

Yellow

BETTY—One of the points of excellence that recommends Betty is its long blooming period—from June until frost. The blooms are extra large in size, full and globular in form, with a delightful fragrance. The color is a coppery rose everspread with golden yellow. Very good autumn bloomer. Each, 75c.

CONSTANCE—Buds streaked with crimson, becoming large, full, globular flowers of shades of yellow. Each, 75c.

MRS. AARON WARD—One of the most beautiful roses of recent years in a color that catches the eye at once. A deep golden orange shading to lemon or creamy yellow at the edge of the petals. Each, \$1.00.

SOUVENIR DE CLAUDIO PERNET—Its color is a definite and lovely sunflower-yellow, deepening in the center, and it retains this color indoors and outdoors, in bud and open bloom. Brilliant green foliage and very many thorns. The buds are produced on long, stiff stems.

SUNBURST—The introducer of this wonderful rose describes it in these words: "Sunburst is a vigorous grower of robust constitution, with erect or slightly spreading habit and few thorns; fine reddish green bronzed foliage. The buds are long and generally borne on long stout stems; the flowers are large, full, and of fine elongated cupped form. The color is a superb cadmium-yellow passing to yellow-orange in the center." Each, 75c.

NEW EVERBLOOMING ROSES

Two Year Old. Each, 98c; add postage.

GORGEOUS—Flowers are large and full. Deep orange yellow and heavily veined with red dace copper, the most charming and gorgeous colorings that have yet been produced.

LADY HILLINGDON—Deep apricot yellow; long and pointed buds. Excellent for cutting.

LOS ANGELES—One of the finest roses ever introduced. In color a luminous flame-pink, toned with coral and shaded with translucent gold at the base of the petals.

LOUIS CATHERINE BRESLAU—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

MADAME BUTTERFLY—The buds are a lovely shade of Indian red, yellow at the base, unique for corsage and low table decorations; the opening flowers are perfect in form and texture, clear and brilliant in color and of delicious fragrance.

MISS LOLITA ARMOUR—Bud medium; flowers large, cupped, double borne, several together, on long stems; very fragrant. Color, chrome-yellow at base, shading copper; reverse of petals with brilliant copper suffusion. Growth vigorous, bushy, upright. Each, \$1.00.

MRS. HENRY WINNETT—The finest of all red or crimson varieties. The buds are long and well formed. A superb red rose.

OLD GOLD—Vivid reddish-orange, with coppery-red and apricot shadings; strong, mildew-proof and free.

WILLOWMORE—Carmine-coral red bud, opening rich, shrimp-pink, shaded yellow in the center and toning to carmine-pink at the petal edge. A very beautiful rose.

HARDY CLIMBING ROSES

Each, 58c, except where otherwise quoted; add postage.

AMERICAN PILLAR—Flowers three or four inches across, of pleasing apple-blossom pink, with clear white eye and cluster of yellow stamens.

CLIMBING AMERICAN BEAUTY—Heavy strong grower; hardy everywhere. Color rich red passing to crimson. Very popular.

CLIMBING GRUSS AN TEPLITZ—A perfect sheet of crimson when in bloom. It's the same as the Bush Teplitz. Each, 75c.

CRIMSON RAMBLER—One of the best Roses known today. Hardy as oak; withstands every climate; grows rapidly and blooms all season long. Double deep crimson flowers borne in large clusters. A plant under favorable conditions grows to a great height the first season.

DOROTHY PERKINS—Beautiful shell-pink color, which holds for a long time, fading finally to a lovely deep rose. Free of mildew.

DR. W. VAN FLEET—Large, double flowers of a dainty flesh pink with rosy center. Flowers are of perfect form with reflex petals and are carried on long stems suitable for cutting.

EXCELSA—Red Dorothy Perkins. Intense crimson-scarlet; double flowers in brilliant clusters set in glossy shining foliage which never mildews or spots.

PAUL'S SCARLET CLIMBER—Vivid scarlet, shaded crimson; makes a brilliant display for a long period of time.

TAUSENDSCHEIN—Mult. Differs from every other rose because the large clusters of flowers vary in color from pink to white, the buds on first opening being a light, cherry-pink, changing when fully open to delightful rosy carmine, fading white. Well merits the name "Thousand Beauties." Strong, vigorous grower.

WHITE DOROTHY PERKINS—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety; but having pure white flowers.

FLOWERING SHRUBS

ALMOND—Spring flowering shrubs, gaily in full bloom before the leaves appear. Their growth is dwarf, bushy and compact; slender branched; when in bloom completely hidden by beautiful, double flowers of rose or white, snuggling tight to the twigs. Double white and Double Pink, 2 to 3 feet, \$1.00; add postage.

ALTHEA—(Rose of Sharon)—Bloom late in August and September, with a profusion of large bright colored flowers. Each, 50c.

BARBERRY—BERBERIS

A valuable group of low growing shrubs, admired for their early yellow flowers, good foliage, and brilliant fruit that clings along the leaves and branches at a time when few other shrubs are attractive.

COMMON—Sturdy, erect-growing shrub, with grooved, spiny branches and light green, prickly leaves; golden yellow flowers in spring, followed by bright scarlet fruits in autumn, which persist through the winter. Two to three feet, each, 50c; 3 to 4 feet, each 75c.

THUNBERG'S JAPANESE—Hardy, dense, low-growing shrub, with spreading, deeply grooved, thorny branches and small, bright green, oval leaves that turn to brilliant shades of orange and yellow in autumn; the large, bright red berries remain on the bushes throughout the winter. Each, 35c, 50c, 75c.

PURPLE—A showy and effective shrub with

purple leaves; yellow flowers in may; reddish purple berries in autumn, which persist nearly all winter. Each, 75c, \$1.00; add postage.

CRANBERRY—HIGH BUSH

Handsome, dense, brilliant green foliage, a rich setting for large bunches of crimson berries which enliven the late summer and persist on bare branches into the winter. Two feet, each, 50c; 3 feet, each, 75c; 4 to 5 feet, each, \$1.00, \$1.25, \$1.50; add postage.

DEUTZIAS

An ornamental shrub that is grown because of its profusion of snowy white flowers in spring or early summer. A thinning out of the old wood soon after the flowering season will be of advantage, but this should be done with caution for the greatest bloom is obtained from plants that have had a minimum of pruning. Very effective for borders of shrubberies.

LEMOINES—Small, spreading shrub that is vigorous in growth and produces large white flowers. Very effective for border planting; 12 to 18 inches, each, 50c; 18 to 24 inches, each, 75c.

PRIDE OF ROCHESTER—A distinct and vigorous-growing variety that comes into bloom early and delights the eye with its large, double, white flowers which are tinged with pink in the bud; 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c; add postage.

DOGWOOD—CORNUS

DOGWOOD—(Cornus)—The shrubby dogwoods are mainly valuable for the brilliancy of their barks and berries and the handsome variegations of their foliage.

SIBIRICA—Clusters of fine white flowers in summer, succeeded by ornamental berries in fall; stem and branches turning to blood-red in winter. Each, 75c.

LUTEA—A striking yellow-branched form of Stolonifera. Each, 75c.

ELEGANTISSIMA—Variegated, silver-leaved. Each, 75c.

FLOWERING CRABS

ATROSANGUINEA—Dark red flowers. The buds are deep purplish red, and the entire flower tinged purplish.

BECHTEL'S DOUBLE FLOWERING CRAB—One of best; vigorous; fragrant, large, double flowers, delicate shell pink.

FLORIBUNDA—Japanese; profuse rose-colored flowers followed by red fruit. Each, \$1.00 to \$2.00.

FORSYTHIAS

One of the first plants to flower in early spring, blooming before the leaf buds burst on other plants in exquisite splendor and brilliancy. They thrive in almost any fertile soil, but should be planted where they will receive the benefit of the early spring sunshine.

FORTUNEI—Bark bright yellow; blooms in dense masses of golden flowers in early spring.

INTERMEDIA—Flowers bright golden; foliage glossy green like Virdissima, but harder than that variety.

SUSPENSA (Weeping Forsythia)—A very useful shrub with a wealth of slender, vine-like, drooping branches, and profusion of golden bell-like blooms. All varieties of Forsythias. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00; add postage.



HYDRANGEA

A well known and favorite class of shrubs, including some of the most showy flowering plants that are found in cultivation. They grow easily, have no insect enemies and are all of them hardy in the Pacific Northwest. One of their best features is that they bloom profusely from July to September, when flowers are comparatively scarce.

HILLS OF SNOW or **Snowball** *Hydrangea*—One of the most showy of the Hydrangeas, with its profusion of snow-white clusters of flowers decorating the plant most of the summer similar to the well known snowball in appearance. Very showy. Each, 50c, 75c, \$1.00.

PANICULATA GRANDIFLORA, LARGE FLOWERED—A grand plant, showy and attractive, remaining in bloom for a month. Flowers are pure white, afterward changing to pink, and are borne in immense clusters, beginning in July and holding them until October. Will bloom same season planted. Remember that they should be pruned back heavily in the early spring before growth starts, to two or three buds as they form their flowers in panicles on the end of the season's growth. 18-inch, 60c; 24-inch, 75c; 30-inch, \$1.00; add postage.

LILAC

Without a doubt among the most popular of the early spring bloomers. Their bright green foliage and large, showy, fragrant panicles of flowers contribute brightness and perfume to the landscape.

All lilacs not otherwise quoted, each, 2 ft., \$1.00; 3 ft., \$1.50.

CHARLES JOLY—One of the most striking dark varieties; color deep red; large, double flowers produced in well-shaped trusses.

CHARLES X—A strong, rapid grower; leaves dark and shining; trusses large and rather loose; color reddish purple; single.

CASIMIR PERIER—The finest double white Lilac yet introduced. The individual flowers, which resemble miniature Tuberoses, as well as the truss, are of immense size, deliciously scented; fine for cutting.

SOUV. LUDWIG SPAETH—Flowers exceedingly large, single, dark purple, forming immense solid clusters of great beauty.

COMMON (Purple or White)—Hardy and extra fragrant, flowering in May and June. 2 to 3 feet, 50c; 3 feet, 75c; specimen, \$1.00 to \$5.00.

HUNGARIAN LILAC—Tall grower; late purple flowers.

Japanese Lilac—With large panicles of white flowers.

PERSIAN LILAC (Purple or White)—Blooms a good deal more than the Common, and has smaller leaves. Does not sprout as much from the roots.

QUINCE FLOWERING

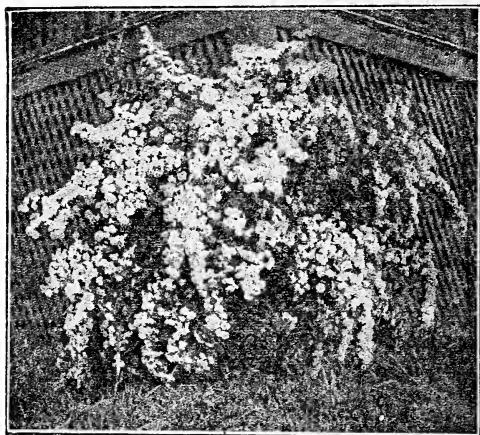
QUINCE JAPAN OR FLOWERING (*Cydonia Japonica*)—Low spreading shrub, the branches of which are armed with formidable thorns. In early spring the branches are hidden by the wealth of dazzling scarlet flowers. The quince-shaped fruits are quite fragrant. 12 to 18 inch, 50c; 18 to 24 inch, 75c; 2 to 3 feet, \$1.00; add postage.

SNOWBALLS

Hardy, upright, mostly rather large shrubs of good, compact habit, neat foliage, white flowers in showy clusters. The bloom is very profuse and the flowerheads of large size. Fine for planting along shrubbery or roads; some species will make a showy appearance if planted alone on the lawn.

COMMON—The old-fashioned favorite with large, globular clusters of white sterile flowers blooming the latter part of May. Very useful for specimens or for planting in groups. 50c, 75c, \$1.00.

DOUBLE JAPANESE (Pilcatum)—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers like real balls of snow; covered with bloom for weeks in the spring. Grows 4 to 6 feet high; entirely hardy, needs no protection; splendid for doorway, lawn and cemetery planting. Two feet, each, \$1.00.



SPIREAS

A group of low or medium-sized deciduous ornamental shrubs that distribute their white or pink blossoms over practically the whole season, some varieties blooming in very early spring, others in midsummer, and yet others in autumn. Their habit of growth is exceedingly graceful, and the bloom is so profuse as almost to hide the leaves.

Anthony Waterer—Covered nearly the whole growing season with large umbels of deep crimson flowers. 50c, 75c, and \$1.00.

PRUNIFOLIA (Bridal Wreath) — Slender erect-growing variety having beautifully colored foliage, and bearing very early in the spring small double white flowers the entire length of its branches. Very graceful habit. Two feet, 60c; three feet, 75c.

THUNBERGI—Low-growing of compact form, with delicate light green foliage which colors up beautifully in the fall. Small white flowers in great profusion, early in the spring. 50c and 75c.

VAN HOUTTEI—The grandest of all the Spiraea. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing. Perfectly hardy and an early bloomer. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c, \$1.00; add postage.

SYRINGA OR MOCK ORANGE

Hardy, fragrant, flowering shrubs that add great beauty and perfume to gardens and homes. Strong, large plants that will flower the first season.

GORDONIANUS—Very late bloomer, valuable for this quality, a large, fragrant white flower. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00.

GRANDIFLORUS — Good large flowered, strong growing sort that is very desirable. Two to 3 feet, 50c; 3 to 4 feet, 75c; 4 to 5 feet, \$1.00; add postage.

VIRGINALIS—A magnificent new variety. Moderately tall and good foliage. The double, semi-double and single flowers are large, handsome and fragrant. 1½ to 2 feet, 75c. Larger plants, \$1.00 to \$2.00.

WEIGELIAS

A valuable genus from Japan; spreading and drooping shrubs, producing beautiful trumpet-shaped flowers of many colors from pure white to red in great abundance, from late spring to early summer.

CANDIDA (White)—Hardy variety, vigorous and fine in habit. Long tubular white flowers produced from June on throughout the summer. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

EVA RATHKE—A free flowering bright red variety of rather dwarf habit. 75c and \$1.00.

ROSEA—The old standard, strong growing, pink flowered variety. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

ROSEA VARIEGATA (Variegated)—A near dwarf shrub, valuable for the clearly defined variegation in its leaves of green, yellow and pink. Effective and useful, being one of the best variegated leaved shrubs known. Flowers light pink and blush. Each, 50c and 75c; add postage.

FRUIT

BLACKBERRIES—Bush

Two year old: Each, 25c; doz., \$2.00; 50, \$6.50; 100, \$12.00; add postage.

BLOWER — Fruit large, jet black, good shipper, hardy, productive and of finest quality.

EARLY HARVEST—Its earliness, combined with good shipping qualities, make it very profitable. Compact dwarf grower, enormous bearer. Fruit medium size, black, of excellent quality.

LAWTON — The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable.

BLACKBERRIES—Vining

Price: Two year old: Each, 25c; doz., \$2.00; 50, \$6.50; 100, \$12.00; add postage.

HIMALAYA GIANT — A strong, rampant trailing plant; very productive. Hardy, and thrives even under severe conditions. Fruit large, handsome and fine quality.

NEW MAMMOTH—No longer a novelty, but a proven success; the best family and market variety known. Strong grower of trailing habit, enormously productive; very early, fruit enormous, core soft and small, seeds small, flavor unsurpassed. Add postage.

DEWBERRIES

The best and most dependable of all dewberries. Large, jet black and fine flavor. Price each, 20c; doz., \$2.00; 50, \$5.50; 100, \$10.00; add postage.

LOGANBERRIES

The loganberry is larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry.

Two year old, each, 25c; doz., \$2.50; add postage.

RASPBERRIES—Black

Two year transplants. Each, 20c; doz., \$2.00; 50, \$6.50; 100, \$12.00; add postage.

CUMBERLAND—A healthy, vigorous grower, throwing up stout, stocky well branched canes that produce immense crops of magnificent berries. Fruit very large, firm, keeps and ships as well as any of the blacks. The most profitable market variety. Mid-season.

GREGG—For many years the leading standard best known market sort. Very productive, large size, firm, meaty berries, covered with heavy bloom.

PLUM FARMER—A few days later than Kansas; maturing the entire crop in a very short period, making one of the most profitable market sorts. The berries are thick-skinned and firm. Berry large and very attractive when picked.

RASPBERRIES—Purple

COLUMBIAN—Very large, purplish color, rather soft; rich, sprightly flavor unrivaled for canning, making jam, jell, etc.; wonderful vigor and productiveness. Unlike other raspberries, this variety does not send out any suckers. Two year old transplants. Each, 25c; doz., \$2.00; add postage.

RASPBERRIES—Red

Each, 15c; doz., \$1.00; 50, \$3.75; 100, \$6.00; add postage.

CUTHBERT ("Queen of the Market")—Berries very large, conical, rich crimson, very handsome and so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.

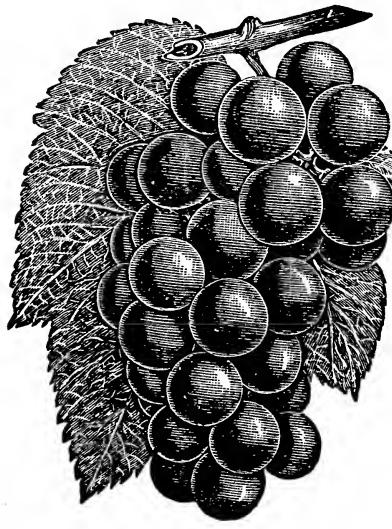
KING—Plant a strong grower, very hardy and productive. Berry is firm, a good shipper; large size; beautiful bright scarlet color; ripens with the earliest.

MARLBORO—Large size, light crimson color; good quality and firm. Vigorous, hardy and productive. The best well tested, large early berry for the north.

ST. REGIS (Everbearing)—A genuine practical, profitable, continuous-to-fall bearing red raspberry. Fruit commences to ripen with the earliest and continues on young canes until Oc-

tober. Berries bright crimson, large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. This variety: Each, 20c; doz., \$1.50; 50, \$4.50; 100, \$8.00; add postage.

GRAPES



Grapes

Black

CONCORD—Very extensively planted. Bunch and berries medium size; black, fair quality, good keeper. Vine hardy, healthy and productive.

MOORE'S EARLY—Bunch large; fruit large; round, black, with heavy boom. Best early variety, hardy and productive.

WORDEN—An improved Concord, and next to it in popularity. Earlier, better quality and larger than Concord, equally hardy and healthy, but not as good a shipper. Best black grape for home use and nearby markets.

Green

MOORE'S DIAMOND—Bunches large; berry greenish white, flesh juicy; almost without pulp.

NIAGARA—Very hardy, strong grower; bunches large, compact. Berries large, round, light greenish white, semi-transparent. Skin tough, does not crack, quality good, melting and sweet.

Red

AGAWAM—Large berries, pulp soft and sweet, early.

CAMPBELL'S EARLY—This variety is recommended very highly on account of its earliness and other good qualities.

DELAWARE—Bunches small, compact; berries rather small, round, thin skin, light red; flesh juicy, sweet, good.

LARGE VARIETIES—Tokay, Muscat and Malaga.

Year	Each	Doz.	25	50	100
Campbell's	\$0.50	\$4.75	\$9.00	\$17.50	\$30.00
Concord .....1	.20	1.75	3.50	5.50	10.00
Concord .....2	.25	2.50	5.00	8.00	15.00
All other 1	.25	2.50	5.00	8.00	15.00
varieties .....2	.35	3.50	7.00	12.50	22.50
Add postage.					

CURRANTS

One-year-old, each, 25c; doz., \$2.00; 50, \$8.00; 100, \$15.00; add postage.

Two-year-old, each, 35c; doz., \$3.00; 50, \$11.00; 100, \$20.00; add postage.

Red

CHERRY—Very large; deep red; fine for preserving; valuable market variety.

PERFECTION—Beautiful bright red, largest size, fine bunches on long stems, permitting easy picking, without crushing. Quality rich, mild, sub-acid, with plenty of pulp and few seeds. Very productive, vigorous and hardy.

White

GRAPE—Very large; yellowish white; very mild acid; excellent quality and valuable for the table.

Under our present state law we are not allowed to ship currants out of the state of Washington on account of an embargo.

GOOSEBERRIES

One year old, each, 25c; doz., \$2.00. 2 year old, each, 35c; doz., \$3.00; add postage.

OREGON CHAMPION—Berries very large, pale green; sweet, fine, bush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

RED JACKET (Josselyn) — Large, smooth, prolific and hardy; best quality.

Owing to an embargo on Gooseberries we cannot ship out of Washington.

APPLES

Summer Varieties

Two and 3-year-old; Each, \$1.00; doz., \$10.00.

One year old, 5 feet; Each, 75c; doz., \$7.00.

One year old, 4 feet; Each, 65c; doz., \$6.00.

One year old, 3 feet; Each, 50c; doz., \$5.00.

Write for price on 50 and 100 lots.

EARLY HARVEST—Medium, pale yellow, tender, juicy.

RED ASTRACHAN—Large, beautiful deep crimson. The favorite, delightful, earliest eating apple.

YELLOW TRANSPARENT—Earliest and best; white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young and makes a profitable "filler."

RED JUNE—A brilliant red variety. Its distinct flavor has made it popular.

Fall Varieties

OLDENBURG—Rather large; light red streaks on yellow ground; tender and juicy; very hardy. Handsome appearance and good cooking qualities are two points in favor of this variety. Early autumn.

FALL PIPPIN—Large; rich yellow when ripe; flesh firm, juicy, aromatic; strong grower and long-lived. September.

RED GRAVENSTEIN—Large; yellow overlaid with red; flesh firm, juicy, sprightly subacid; productive. September to November.

SNOW (Fameuse)—Medium size; bright red deepening to almost purplish black in highly colored specimens; flesh white, juicy, aromatic; heavy yielder. October.



Apples

Winter Varieties

BANANA—Large and showy; yellow, with pinkish red blush; flesh tender, heavy bearer.

DELICIOUS—This variety ranks very high either for commercial or home orchards. Large; brilliant dark red; flesh fine grained, crisp, juicy with a delightful aroma; splendid keeper and shipper, heavy bearer.

JONATHAN—Red and yellow, tender, juicy and rich. Very productive; one of the best for table and market. Extensively planted, doing well even on comparatively low lands.

NEWTOWN PIPPIN—Yellow Newtown or Albemarle Pippin. One of the best quality apples, favorite in European markets where it brings fancy prices. Greenish yellow, large, juicy, crisp and aromatic. One of the best keepers and shippers. Moderate growth, good, regular bearer. Very profitable and extensively planted.

NORTHERN SPY—Striped red, large, subacid, tender, and juicy. Best dessert apple known. Tree hardy and vigorous.

RED McINTOSH—Large deep crimson, highest quality, juicy, subacid. Good for both culinary use and dessert. One of the best red winter apples.

ROME BEAUTY—Dark red striped, large, excellent quality; a market favorite, bringing good prices. Tree hardy, regular bearer, late bloomer.

STAYMAN WINESAP—Medium size; yellow ground covered with red; flesh fine, crisp, and high-flavored; reliable and heavy cropper.

WAGENER—Medium to rather large; beautiful bright red; flesh firm, subacid, well-flavored; annually productive.

WEALTHY—Medium to large; deep red, attractively marked; flesh white and juicy. Good bearer.

All apples same price. See quotations Summer Varieties.

APPLES—Crab

TRANSCENDENT—Largest of the crabs; striped red, showy, excellent and very handsome. Hardy and strong grower.

SIBERIAN, RED—Small, bright red, covered with light bloom; fine flavor, excellent for preserving. Ripens September.

SIBERIAN, YELLOW—Large, beautiful, golden yellow. September and October. Same price as apples.

APRICOTS

One year, 3 to 4 feet: Each, 60c; doz., \$6.50.

One year, 4 to 5 feet: Each, 75c; doz., \$7.50.

Two and 3 year old: Each, \$1.00 to \$2.00.

J. L. BUDD—A strong, profuse bearer; large white and red fruit. Sweet and juicy. A desirable Russian variety. Very hardy and productive. Ripens in July.

MOORPARK—Very large; orange with reddish cheek; flesh orange, sweet, juicy, with fine flavor; very valuable. The best and most extensively planted apricot. Ripens early August.

ROYAL—Medium size, oval, sweet yellow, tree productive; excellent drying and canning variety. Ripens in July.

TILTON—Large, flesh firm, yellow, decidedly freestone. Tree vigorous, regular and heavy bearer.

PEACHES

Two-year-old. Each, \$1.00.

One-year-old, 4 to 5 feet: Each, 75c; doz., \$6.00.

One-year-old, 3 to 4 feet: Each, 50c; doz., \$4.50.

ALEXANDER—Medium, greenish white, nearly covered with rich red; melting, juicy, sweet. July.

CHAMPION—Creamy white, splashed with carmine, with a blush of darker red; very juicy, sweet and tender; tree vigorous and very productive; has stood 18 degrees below zero and produced a full crop the following summer.

CRAWFORDS EARLY—A magnificent, large yellow peach of excellent quality. Its size, beauty and productiveness make it one of the most popular varieties.

ELBERTA—The great market peach. Large, handsome; orange-yellow, nearly overspread with red, much mottled; flesh yellow, firm but tender, mildly subacid.

J. H. HALE—Recently introduced, recognized as one of the finest market peaches; large size, fine quality, red cheek, yellow meated freestone, ripening with Elberta but a better tree and more productive.

TRIUMPH—Earliest yellow fleshed peach. Sure and abundant bearer; strong, vigorous grower. Fruit good sized; yellow with crimson cheek.

CHERRIES—Sour

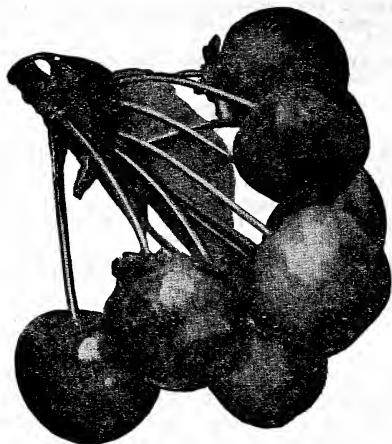
Two and 3 year old selected. Each \$1.50.

One-year-old, 4 feet. Each, \$1.25.

One-year-old, 3 feet. Each, 85c.

EARLY RICHMOND—Medium, dark red, melting, juicy, sprightly, rich acid, best. June.

LATE DUKE—Large, light red, delicious fruits. Tree strong and upright, exceedingly productive. July.



Cherry

MAY DUKE—Large, red, juicy, rich. June. Not so sour as some varieties, and very pleasant for sensitive teeth.

MONTMORENCY—Large, red, acid, exceedingly productive. Late June.

CHERRIES—Sweet

Two and 3-year old selected. Each, \$1.50 to \$3.00.

One year old, 5 feet: Each, \$1.25; doz., \$13.00.

One year old, 4 feet: Each, \$1.00; doz., \$10.50.

One year old, 3 feet: Each, 75c; doz., \$8.25.

BING—Very large; dark brown, almost black; flesh firm, rich and delicious. Immense size; good shipper.

LAMBERT—Large size and fine quality; deep, rich red, almost black; flesh firm and flavor unsurpassed. Best shipping variety; regular and heavy bearer. Ripens late July, two weeks after Royal Ann.

ROYAL ANN—One of the best known cherries. Very large, firm, rich red and white; good for table, canning and shipping, and the best of all the red varieties.

TARTARIAN—Very large; black; tender. One of the most popular varieties.

PEARS

Two and 3 year old. Each, \$1.00 to \$2.00.

One-year-old, 5 feet. Each, \$1.00; doz., \$10.00.

One-year-old, 4 feet. Each, 75c; doz., \$7.50.

One-year-old, 3 feet. Each, 65c; doz., \$6.50.

Write for prices on 50 and 100 lots.

BARTLETT—Large, buttery, juicy, high-flavored, great bearer. This sort has long been considered one of the choicest canning varieties, as well as a favorite for all other uses. August.

CLAPP'S FAVORITE—Very large; yellowish green to full yellow, marbled with dull red in the sun and covered with small russet specks; vinous, melting and rich.

FLEMISH BEAUTY—Large, surface slightly rough; greenish yellow and brown; flesh juicy, melting, very rich and sweet; tree hardy, producing good crops annually.

SECKEL—Small, but handsome and delicious; yellowish russet with a red cheek; flesh whitish, buttery, very juicy and melting; tree makes somewhat slow but stout and erect growth. Probably the richest and highest-flavored pear known.

PLUMS

Two or 3 year old selected. Each, \$1.00 to \$2.00.

One year old, 5 feet, 75c.

One year old, 4 feet, 60c.

One year old, 3 feet, 50c.

BURBANK—A favorite Japanese Plum, ripening in August. Large, round, mottled red and yellow; productive and profitable. Tree hardy and vigorous.

BRADSHAW—Very large, oval; dark violet red; juicy, sweet and good. A valuable market variety. August-September.

DAMSON—Small, roundish oval; dark purple; favorite for preserves. September.

PEACH—Large, roundish; brownish red; coarse grained, but juicy, pleasant, sprightly flavor. Freestone. Ripens July. Ranks first in popularity.

YELLOW EGG—A very large and beautiful egg-shaped plum; a little coarse, but excellent for cooking. Late October. Free grower, productive and hardy.

PRUNES

Two and 3 year old. Each, \$1.00 to \$2.00.

One-year-old, 6 feet. Each, 75c; doz., \$7.75.

One-year-old, 4 feet. Each, 65c; doz., \$6.50.

One-year-old, 3 feet. Each, 50c; doz., \$4.50.

Write for price on 50 and 100 lots.

ITALIAN—Good size, purple, juicy, delicious, best for drying; separates freely from the stone.

FRENCH OR PETITE—The well-known California favorite for drying. Medium to small, egg-shaped; violet purple; juicy, very sweet, rich and sugary. Prolific, heavy bearer.

HUNGARIAN—Very large, dark red, juicy and sweet. Its large size, bright color, productivity and shipping qualities make it a profitable variety for home or distant markets.

SUGAR, NEW—Fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early, August.

QUINCES

Two-year-old, 3 to 4 feet: Each, \$1.00; doz., \$10.00.

CHAMPION—A prolific, constant and early bearer, oval fruit averaging larger than the Orange, quality equally fine, and a long keeper; ripens late.

ORANGE—Fruit large, bright yellow, of excellent flavor. October.

CONIFEROUS EVERGREENS

No Home Grounds are complete without them. They are beautiful in winter as well as summer; in winter they supply the only living green in the landscape; they make a beautiful background for any house, and give it a home-like appearance that is not to be produced by any other class of trees or shrubs.

Arbor Vitae

AMERICAN—Native, known as cedar. Foliage bright green; yellow-green underneath; brown and bronze in winter. Each, \$1.50.

ORIENTAL—Fine with close ascending branches of a fan-shaped appearance. Each, \$1.50.

PYRAMID ARBORVITAE—Bright green leaves above and dark glossy green leaves beneath. An excellent tree where pyramid forms are desired. Each, \$3.00.



Blue Spruce

Cedar

RED CEDAR—Native with striking form and beautiful color. Each, \$2.50.

Hemlock

WESTERN—Very beautiful and appealing; branches pendant and foliage deep green. Each, \$2.00.

Fir

NORMAN'S—Lustrous, deep green foliage; very symmetrical. One of the best. Each, \$3.00.

WHITE—A fine spruce; rapid growth; very hardy. Very attractive. Each, \$3.00.

Juniper

COMMON—Branches spreading. Fine trees.

IRISH—Pyramidal in form, foliage silvery gray. Very striking.

SAVIN—Handsome moss green foliage. Each, \$3.00.

Spruce

COLORADO BLUE—This is one of the most popular of the spruces. Very showy and ornamental.

Each, \$4.00 and up.

NORWAY—A lofty, rapid grower; branches drooping. Fine for hedge or windbreak. 2 to 3 feet, each \$3.00.

EVERGREEN SHRUBS**Boxwood**

Handsome hardy evergreens that are very popular for use as specimens in lawns, hedges and for tubbed plants.

PYRAMIDAL BOXWOOD—Cone shaped plant of great beauty. 2 to 2½ feet, each \$5.00; 2½ to 3½ feet, each \$6.00.

GLOBE BOXWOOD—Trimmed in shape of a globe. Each, \$2.50 to \$5.00.

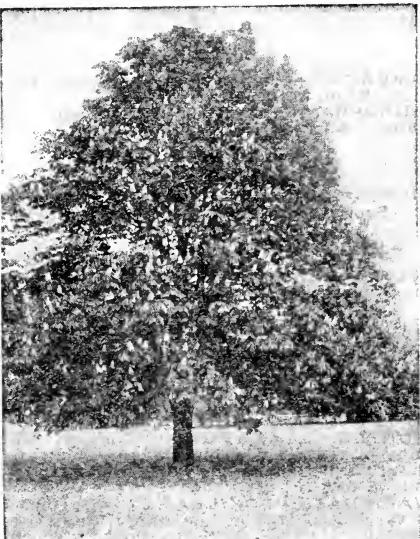
Oregon Grape

OREGON GRAPE—Official flower for the State of Oregon. Holly leaved Berberry. Fine for shady places. Each, 50c to \$1.00.

Privit

ENGLISH PRIVIT—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants, and takes 2 plants to the foot. 15 to 18 in., 10 plants \$1.00, per 100 \$7.50; 18 to 30 in., 10 plants \$1.25; per 100 \$10.00.

GOLDEN PRIVIT—Beautiful variegated shrub used to plant in among evergreens. Gives wonderful effect. \$1.00 each.

DECIDUOUS ORNAMENTAL TREES

Horse Chestnut

As ornamental subjects, trees take first place, as they are permanent, easy to cultivate and care for. In all landscaping, the trees are the most permanent and important element, furnishing masses of foliage.

Birch

EUROPEAN WHITE—Silvery white bark and slender drooping branches. Each, \$1.00 to \$2.50.

CUT LEAF WEEPING—A rapidly growing, graceful tree that is hardy everywhere. Bark and branches silvery white, forming a contrast with the delicate cut evergreen foliage. Its leaves seemingly are ever in motion. Beautiful and effective for all purposes.

Each, \$1.00, \$2.00, \$3.00, \$4.00, \$5.00.

Catalpa

Splendid trees, white flowers, bright foliage.

CATALPA WESTERN—Very rapid grower; fine as a quick shade. 7 to 8 feet, each \$1.00.

Dogwood

WHITE FLOWERING—Flowers white, three inches in diameter, blooming before leaves come in spring. Price, each \$1.50.

SIBERIAN—Small tree growing to about 25 or 30 feet with slender, slightly drooping branches. Very hardy and a remarkable grower. A very remarkable tree, which is recommended highly for regions unsuited to most of the common shade trees. Each, \$1.50.

Elm

CHINESE—A very rapid grower, adapted to semi-arid districts. Beautiful and graceful. Each, 75c and \$1.00.

Hawthorne

PAUL'S DOUBLE SCARLET—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. Each, \$2.50.

Horse Chestnut

WHITE FLOWERING—Foliage showy, flowers stand in upright panicles. Each \$1.50 to \$3.00.

Linden

AMERICAN—Shapely and handsome; foliage large. Each, \$1.50.

EUROPEAN—Similar to American. Leaf smaller. Each, \$1.50.

Locust

BLACK—Rapid grower; fine for street planting. Each, 75c to \$2.00.

Mulberry

NEW AMERICAN—A rapid grower, handsome; splendid as a shade tree. Each, \$2.00.

Maple

SYCAMORE—Tree large and spreading with handsome foliage. Each, \$2.00.

NORWAY—Large, growth compact; foliage deep green. Handsome. 6 to 8 feet, each \$1.50; 8 to 10 feet, \$2.50.

PURPLE LEAF—Variety Norway Maple. Young leaves are deep purple. As summer advances purple changes to green. New and very good. 6 to 8 ft., \$3.00 each.

VARIEGATED BOX LEAF ELDER—The finest variegated tree of the hardy kinds, leaves almost pure white. Nothing finer for specimen planting, 4 to 6 ft. Each, \$3.00.

Mountain Ash

AMERICAN—Very ornamental, handsome foliage turning orange red in the fall. Red berries remain on the tree most of the winter.

Each, \$1.50; 8 to 10 feet, \$2.50.

Oak

SCARLET—Pyramidal shape foliage changes to bright red in fall. Each, \$1.50.

OAK PIN—The Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply-pinnated foliage. Splendid for lawn or street. Each, \$2.00.

OAK RED—Ideal for lawn or street. Each, \$2.00.

Poplar

CAROLINA—A very popular variety. Each, 50c and \$1.00.

CANADIAN—Hardy, rapid grower, very symmetrical, one of the best. Each, 50c and \$1.00.

RUSSIAN OLIVE—Spreading top, silvery white, long narrow foliage. The small yellow blossoms are very fragrant. 75c to \$3.00.

Weeping Willow

WISCONSIN—Large glossy leaves and very pendulous habit. Each, 75c to \$1.50.

AMERICAN—The well-known common weeping willow. Each, \$1.50.

Add 10c for postage for the first root and 3c for each additional root. This will equalize postage, though in some cases this postage will be too much while in other instances it will be too little.

Fertilizers

Most soils in the Inland Empire are yet fairly new. Their native or virgin fertility is not yet exhausted. There are, however, many different types of soils, some of which do not naturally contain very large supplies of the different elements of plant food needed by crops. Such soils are likely soon to "run out" and need application of fertilizers carrying the particular elements in which they are deficient.

Write for prices on all fertilizers, stating amount wanted, as prices may change.

FISH MEAL—A high grade fertilizer made of fish scrap, dried and finely ground. It is very high in nitrogen and phosphoric acid, and will produce wonderful results where a luxuriant top growth is desired, and where the offensive odor will not be objectionable. Use about 500 lbs. to acre when applied to row and 1,000 if sown broadcast, 6 nitrogen, 6 phosphoric acid.

Ton	\$4.50 per 100 lbs.
Less than ton	\$4.62½ per 100 lbs.
Less than 1000 lbs.	\$4.75 per 100 lbs.
Less than 500 lbs.	\$5.00 per 100 lbs.

GYPSUM

Agricultural gypsum (land plaster) is an untreated, ground, natural rock fertilizer, consisting mainly of hydrated calcium sulphate.

Gypsum furnishes sulphur in available form and may also increase the nitrogen supply to legume crops.

For beans, peas and vetches it may be drilled in with the crop. The rate of application is 200 to 500 pounds to the acre.

In deciding whether to use gypsum or sulphur the relative cost is an important factor. Results have indicated that it requires about four times as much gypsum as sulphur to give equivalent increases in yield.

Ton	80c per 100 lbs.—\$16.00
Less than ton	85c per 100 lbs.—\$17.00
Bag lots	\$1.00 per 100 lbs.

Antrol for ants.

Snarol for cutworms.

See Page 82.

MURIATE OF POTASH—The great importance of adding potash to some soils is well known.

Ton	\$3.50 per 100 lbs.
Less than ton	\$3.62½ per 100 lbs.
Less than 1000 lbs.	\$3.75 per 100 lbs.
Less than 500 lbs.	\$4.00 per 100 lbs.
100 lbs.	\$5.00 per 100 lbs.
Less than 100 lbs.	.6c per lb.
Less than 50 lbs.	.7c per lb.
Less than 25 lbs.	.8c per lb.

NITRATE OF SODA—Contains 13 per cent Nitrate, in quickly available form. It is used for forcing crops like lettuce, celery, etc., as it makes a large growth of leaves and tops.

Apply the Nitrate of Soda by broadcasting it evenly over the entire surface of the vegetable field you are fertilizing, at the rate of 250 pounds per acre, before seeding, or planting, or transplanting.

Ton	\$3.25 per 100 lbs.
Less than tons	\$3.37½ per 100 lbs.
Less than 1000 lbs.	\$3.50 per 100 lbs.
Less than 500 lbs.	\$3.75 per 100 lbs.
100 lbs.	\$4.75 per 100 lbs.
Less than 100 lbs.	.5c per lb.
Less than 50 lbs.	.6c per lb.
Less than 25 lbs.	.8c per lb.

Bags weigh about 160 lbs. and are sold gross weight.

SHEEP MANURE—Contains Nitrogen, Phosphoric Acid, Ammonia and Potash in liberal proportions. Produces immediate and lasting effect. Promotes steady and rapid growth.

It should be applied liberally, as it will not burn and the cost is low. Recommend 100 lbs. to 2,000 square feet. No objectionable odor.

Ton	\$1.25 per 100 lbs.
Less than ton	1.35 per 100 lbs.
Less than ½ ton	1.50 per 100 lbs.

SULPHUR

SULPHUR ON ALFALFA AND CLOVER

Sulphur has proven its value as a fertilizer for alfalfa and clover.

The best results have been obtained by the use of a sulphur reduced to a fineness of 90% through a 200 mesh.

The following is taken from Bulletin 128, June, 1924, issued by Washington State College, Pullman, Washington:

Sulphur fertilizer can most profitably be applied to old seeding alfalfa in the spring.

Need for Sulphur. The amount of sulphur in various soils of the Palouse region varies from 250 to 975 pounds per acre of surface soil. The average amount of sulphur in cultivated soils is about 560 pounds.

Studies show that about five or six pounds of sulphur per acre are brought down by the average rainfall of 21 inches, while a two-ton crop of alfalfa removes about 12 pounds of sulphur per acre.

Ton	\$3.00 per 100 lbs.
Less than ton	\$3.12½ per 100 lbs.
Less than 1000 lbs.	\$3.25 per 100 lbs.

Price subject to change.

SUPERPHOSPHATE—This is a concentrated form of phosphoric acid. 17% phosphoric acid.

Ton	\$1.75 per 100 lbs.
Less than ton	1.87½ per 100 lbs.
Less than 1000 lbs.	2.00 per 100 lbs.
Less than 500 lbs.	2.25 per 100 lbs.
Bag, 125 lbs.	\$3.15
100 lbs.	\$3.00
Less than 100 lbs.	.4c per lb.
Less than 50 lbs.	.5c per lb.

Prices subject to change.

PACKING HOUSE PRODUCTS

BLOOD DRIED—A very effective and quick acting form of nitrogen. Like Nitrate of Soda it must be used with care, and is best used in several light applications, but when properly used it is a very valuable fertilizer. It is blood, dried and finely ground. Use about 400 lbs. to acre when applied to the row and about 1,000 lbs. if used broadcast.

Ton	\$5.00 per 100 lbs.
Less than ton	5.12½ per 100 lbs.
Less than 1000 lbs.	5.25 per 100 lbs.
Less than 500 lbs.	5.50 per 100 lbs.

BONE MEAL STEAMED—You will notice this is referred to as Steamed Bone Meal, because it has been given a special treatment in order that the different elements may be the more readily converted into plant food. Used extensively for bulbs, flowers, roses, and greenhouses.

Analysis: Nitrate, 1%; phosphoric acid, total 28%.

Ton	\$3.00 per 100 lbs.
Less than ton	3.12½ per 100 lbs.
Less than 1000 lbs.	3.25 per 100 lbs.
Less than 500 lbs.	3.50 per 100 lbs.
100 lbs.	3.75 per 100 lbs.
Less than 100 lbs.	.5c lb.

TANKAGE—This gives off very little odor and is highly recommended as a reliable fertilizer. Use about 500 lbs. to acre for row application and about 1,000 lbs. broadcast, 4½ nitrogen, 7 phosphoric acid.

Ton	\$2.50 per 100 lbs.
Less than ton	2.62½ per 100 lbs.
Less than 1000 lbs.	2.75 per 100 lbs.
Less than 500 lbs.	3.00 per 100 lbs.

Prices of all fertilizers subject to change.

SPECIAL FERTILIZERS

FOR SPECIAL CROPS—While the amount and kind of fertilizer to use for any given crop depend somewhat upon the nature and condition of the soil it is a well known fact that certain crops require certain ingredients to feed upon, and unless these are supplied, the crop produced will only be a part of what might have been produced if the crop had been properly supplied with the elements that it required.

BERRY FERTILIZER—2 nitrogen, 10 phosphoric acid, and 2 potash, is an organic material suitable for fall and spring application. The most successful berry growers apply from 1,000 lbs. to 1,200 lbs. per acre yearly when applied to the rows.

Ton	\$3.25 per 100 lbs.
Less than tons	\$3.37½ per 100 lbs.
Less than 1000 lbs.	\$3.50 per 100 lbs.
Less than 500 lbs.	\$3.62½ per 100 lbs.
100 lbs.	\$3.75 per 100 lbs.

General Fertilizer, 2 per cent nitrogen, 10 per cent phosphoric acid and 2 per cent potash, is made up of half chemical and half organic materials for spring application to vegetables and is a general fertilizer for this purpose. Row application, 500 lbs. to acre. Broadcast, double this amount.

Ton	\$3.25 per 100 lbs.
Less than tons	\$3.37½ per 100 lbs.
Less than 1000 lbs.	\$3.50 per 100 lbs.
Less than 500 lbs.	\$3.62½ per 100 lbs.
100 lbs.	\$3.75 per 100 lbs.

Clarke's Orchard Dressing, 6 nitrogen, 10 phosphoric acid, and 4 potash, is a balanced ration orchard fertilizer which has made immense increases in the quality and quantity of

fruit. This material is carefully ground and cured ahead of the season in order to be highly efficient. Use one pound per year, age of tree up to 12 years.

Ton	\$4.00 per 100 lbs.
Less than ton.....	\$4.12½ per 100 lbs.
Less than 1000 lbs.....	\$4.25 per 100 lbs.
Less than 500 lbs.....	\$4.50 per 100 lbs.
100 lbs.	\$4.75 per 100 lbs.

Potato Special, 2 nitrogen, 10 phosphoric acid, and 4 potash. This is a mixture especially prepared of materials which tend to decrease the spread of scab. Soot and potash salts are especially included in this mixture to assist in reducing this pest. Hill application 700 to 800 lbs.

Ton	\$3.00 per 100 lbs.
Less than ton.....	\$3.12½ per 100 lbs.
Less than half ton.....	\$3.25 per 100 lbs.
Less than 500 lbs.....	\$3.50 per 100 lbs.
100 lbs.	\$3.75

Tomato Special, 3 nitrogen, 8 phosphoric acid, and 6 potash, is a material especially designed to make large, quick maturing fruit which is solid and will ship well. Row application, 500 lbs. to acre, but more than double this amount if used broadcast.

Ton	\$3.25 per 100 lbs.
Less than ton.....	\$3.37½ per 100 lbs.
Less than half ton.....	\$3.50 per 100 lbs.
Less than 500 lbs.....	\$3.62½ per 100 lbs.
100 lbs.	\$3.75

Quotations on fertilizers are prices prevailing Dec. 1, 1930, but as these are liable to change our prices may advance or decline, therefore it is better to write for prices stating amount wanted.

Please note that analysis on fertilizers may vary from figures here given as sometimes the different mixtures will vary somewhat, hence not guaranteed to be exactly correct.

VIGORO

Specially prepared plant food

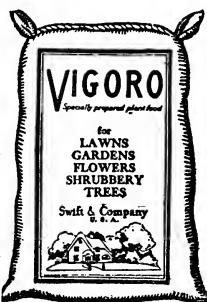
For a better lawn, more beautiful flowers, and fine vegetables, you can rely on VIGORO.

You can enjoy these beauties of nature if you use good seed, plants, bulbs, and the right plant-food. The right plantfood is important because plants must be fed the same as human beings.

VIGORO is scientifically balanced and complete, and provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10c to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen colander. Effective because it contains all of the elements of plantfood necessary to grow richly colored flowers, velvety lawns, succulent vegetables, luxuriant shrubbery, and healthy trees.

100-lb. bag, \$6.00; 50-lb. bag, \$3.75; 25-lb. bag, \$2.00; 5-lb. pkg., 60c.

Complete directions in every bag.



GROMORE

DEPENDABLE

TRADE MARK

FERTILIZER

ODORLESS—CLEAN—EFFICIENT

Nothing better for flowers and house plants. A tablespoonful to hill of potatoes, tomatoes or ordinary rose bush means abundant flowers, crisp and early vegetables.

A teaspoonful for 6 to 8 in. potted plant.

The small amount that it is necessary to use makes Gromore one of the most economical fertilizers. 2 lb. pkg., 25c; add postage.

Plants fed with STIM-U-PLANT will grow infinitely better; keeps your house plants healthy all year long. Odorless; clean. Simply insert tablets in soil. Complete directions in every package.

Box of 30 tablets 25c, postpaid 30c; 100 tablets 75c, postpaid 85c.



PEAT MOSS consists chiefly of decomposed vegetable or organic matter. It is free from weed seeds and detrimental to fungi. It is produced from high-level moorland, consisting chiefly of sphagnum moss of high quality, light in color and weight. It is light and has superior moisture absorbing and retaining qualities.

Peat Moss is valuable for use on greenhouse benches, in hotbeds and cold-frames, in potting and bench soil.

Price per bale, \$3.75.

Mouse Seed for mice.

K. R. O. for rats.

See Page 83.

INOCULATE All Your Legumes THE EASY WAY

USE



INOCULATOR DUST-KOTE

Now you don't have to use out-of-date, messy methods to treat your legume seeds. The new McQUEEN Dust-Kote Inoculator is just dusted on the seed. Takes but a moment to do it right in your seeder, you need no water at all. Sticks to seed and is a CLEAN, handy inoculation.

ABSOLUTELY GUARANTEED

to give satisfactory results or your money back. This is for your protection. You are the judge of results.

Inoculate your Alfalfa, Sweet Clover, Soy Beans, Vetch, Peas, Beans and Clovers of all kinds with McQueen's guaranteed Inoculator that hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills.

Simple directions for mixing Inoculator with your seed are printed on each package of McQueen's. Only a few minutes of your time is required to inoculate your legume seed. Do it right in seeder or drill box. No water is used. Many master farmers use McQueen's.

CLEAN, EASY TO USE AND SAFE

CLINGS TO SEED—DOES NOT SOIL HANDS

JUST DUST DRY ON SEEDS—TAKES LITTLE TIME

SOLD 15 YEARS AS A DRY POWDER—NO GUESSWORK



FOR CLOVERS OR ALFALFA

1/2 bu. size (inoculates 30 lbs. seed)	\$.50
1 bu. size (inoculates 60 lbs. seed)	1.00
2 1/2 bu. size (inoculates 150 lbs. seed)	1.75
5 bu. size (inoculates 300 lbs. seed)	2.50

FOR SOY BEANS, COW PEAS, VETCH, PEAS OR BEANS—all large seed

1 bu. size (inoculates 60 lbs. seed)	.... \$ .50
2 bu. size (inoculates 120 lbs. seed)	.... 1.00
5 bu. size (inoculates 300 lbs. seed)	.... 1.75
10 bu. size (inoculates 600 lbs. seed)	.... 2.50

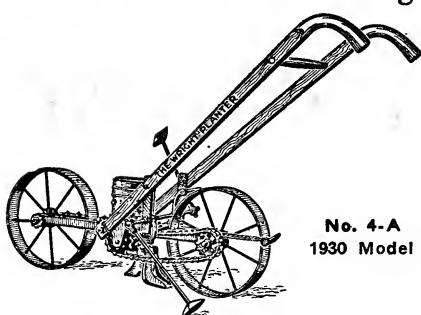
SPECIAL FOR HOME GARDEN USE GARDEN PACKET

Peas, beans, lima beans, sweet peas. \$.15
Always state kind of seed you wish to inoculate.

Include DUST-KOTE with Your Legume Seed Orders

Seeders and Cultivators

Wright's Planter



No. 4-A
1930 Model

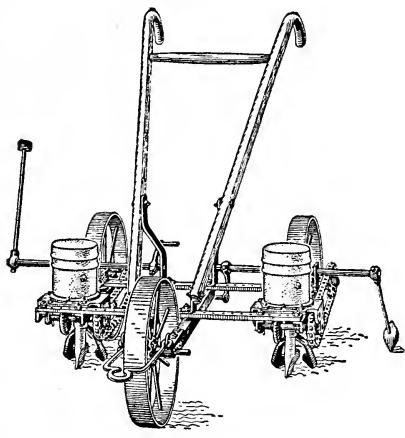
In this new model, Wright's superior seed dispensing mechanism has not been changed, but other important features have been effected.

The trenching point or furrow opener is pointed downward and opens a seed row in a hard or soft seed bed. The wide tire following wheel packs the planted row. The sprocket drive is positive to the driving gears, and the chain drive can be had from either the rear or front axle.

With the eleven plates furnished with each machine, they will operate to drill evenly, or hill plant seeds spaced every 45 inches, every 22½ inches, 15, 11½ or nine inches. Head lettuce or any variety of seed can be dropped as per this spacing, two or more seeds to the hill.

The No. 4-A Planter weighs 40 pounds; is of light draft for being pushed by hand, though a horse or tractor hitch is furnished when ordered. Wright Planters save much seed and labor thinning excess plant growth. Guaranteed to plant a fixed number of seeds per foot with fair accuracy. Refer to the following planting table.

Price, \$26.00. Weight 40 lbs.



No. 5-A

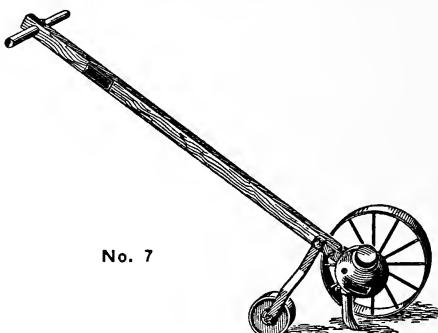
The New Model Wright Two-Row Planter has been designed for rugged field use. The wide tire wheels adapt the machine to loose or heavy soils and the clevice hitch provides a means for attaching the tool to either a horse or light tractor.

The regular adjustment of the steel frame is for two 24-inch rows down to 14-inch rows, and when the machine is set for two 24-inch rows,

without change, two 12-inch rows can be planted by straddling alternate rows. In this manner other narrow row planting can be had as may be desired. Price, \$50.00. Weight, 100 lbs.

	Plate No.	Seeds per foot.						
Beets	9	8	11	25	—	—	1	80
Carrots	8	12	6	25	2	40	—	—
Corn, Sweet	10	2	—	—	—	—	5	60
Lettuces	22	6	2	18	1	36	5	60
Onions	12	1	25	—	5	36	7	70
Parsnips	8	18	9	60	—	—	—	—
Radishes	2	6	5	20	1	25	7	40
Spinach	7	18	—	—	—	—	5	60
Turnips	4	12	2	18	1	36	—	—

The Wright Wee Planter

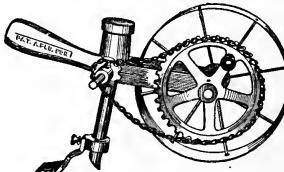


No. 7

So called by reason of its size, nine pounds weight and having only seven pieces of mechanism. This tool has been especially designed for greenhouse use and light gardening. It will dispense a fixed number of seeds per foot of any kind or size from beans to poppies with close accuracy. The whole mechanical system of the machine is that it has a plate system—a series of plates numbered from one to nine—that will evenly dispense any variety of seed according to the planting table that is in the cover lid of the box that holds the plates when not in use.

Price, \$9.00. Weight, 11 lbs. Add postage.

The Wright Single Hand Planter



The Wright Single-Hand Planter has been designed for light purpose and use. The parts in its construction are of burnished aluminum metal for lightness, but of sufficient weight (less than two pounds) to assure ample strength for fairly rugged use.

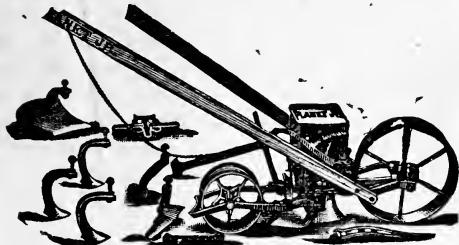
To adjust the machine for dispensing any variety please note the numbered notches of One

to Six of the Seed Feed Bar, and the figures given in the subjoined Seed Schedule at the ends of each line. The Seed Feed Bar is adjustable in the body of the machine with two thumb set screws.

For greenhouse bench plantings the tool is propelled by the single hand grasp.

Postage paid. Price, \$6.00.

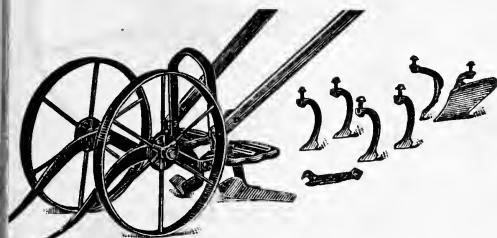
No. 4 Planet Jr.



This is the most popular combined tool made. It combines in a single implement a first-class, hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart.

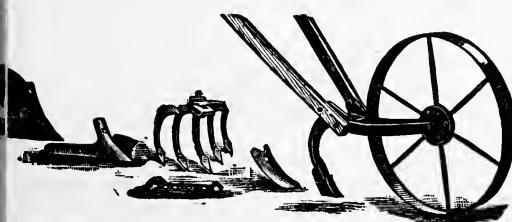
The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price complete, \$18.00. Seeder only, \$14.25.

No. 12 Planet Jr.



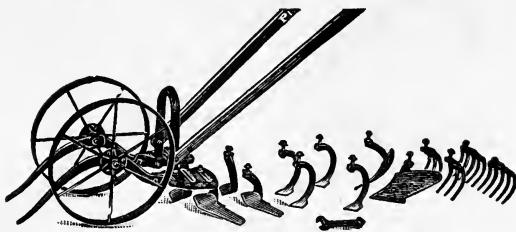
No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Price, \$10.75.

No. 19 Planet Jr.



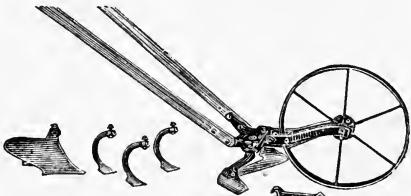
No. 19—This attractive implement is especially designed for the farmer's garden work. The great variety and fine shape and quality of the tools makes the implement light running and effective. It is strong, well made, and quickly adjusted. The height of the handles can be changed to suit. Price, \$6.00.

No 11 Double Wheel Hoe



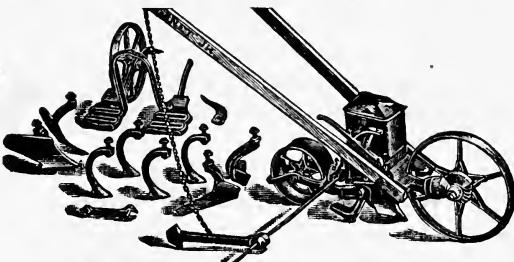
No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Price, \$13.75.

No. 17 Planet Jr.



Wheel can be placed on outside of wheel arm to work both sides of the row at one time. With the plow, all the necessary plowing, opening and closing of furrows for seed, fertilizer, etc., and hilling of plants can be done. Price, \$7.75.

No. 25 Planet Jr.



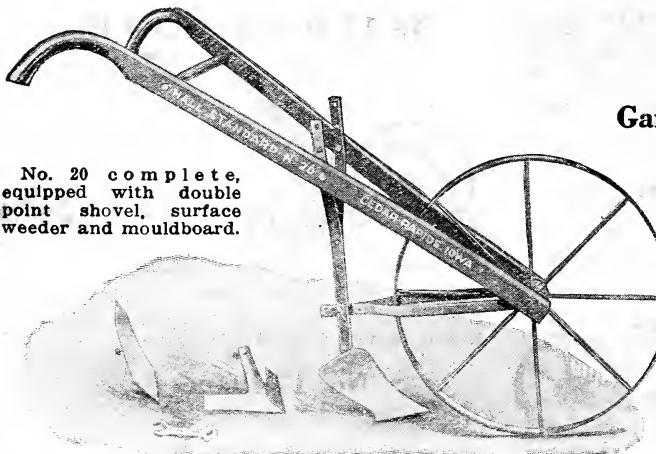
As a drill it is almost identical with the Planet Jr. No. 4 Drill, and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills.

As a wheel hoe it is identical with the Planet Jr. No. 12 Double Wheel Hoe, the very best machine on the market. The change from drill to wheel hoe takes but a moment. Price, \$21.50.

PLANET JUNIOR'S EXTRAS.

Size—	Price	Weight
	Pair.	Pair.
Hoes, 6 inch.....	\$1.30	3 lbs.
Hoes, 7½ inch.....	1.50	3 lbs.
Hoes, 9 inch.....	1.65	3 lbs.
Rakes, 3 teeth.....	1.00	2 lbs.
Rakes, 5 teeth.....	1.60	2 lbs.
Rakes, 7 teeth.....	2.25	3 lbs.
Cultivator teeth, each.....	.35	1 lb.
Plows for double wheel hoes. Each	1.40	3 lbs.
Plows for single wheel hoes. Each	1.30	3 lbs.
Handles, per pair.....	1.00	3 lbs.

Add postage.



No. 20 complete, equipped with double point shovel, surface weeder and mouldboard.

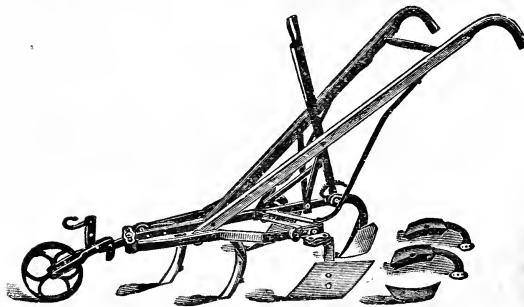
Garden Plows

No. 20 Garden Plow is equipped with three tools, well sharpened and polished. Handles adjustable to proper working height. Extra heavy, 24-in. wheel and superior construction throughout makes this plow a rapid seller. Price, \$4.50.

NO. 25—Handles made of hollow pressed steel 1x2 inches. No wood to split, crack, or warp. 24-inch wheel, 1½-in. tire. Hub 3½ in. in width. Adjustable handles. By loosening one bolt handles can be raised or lowered. Three-hole adjustment permits changing the draft to suit different soils. While the accompanying cut shows only three attachments, the new style which we are offering has five attachments. Price, \$5.25.



No. 2—5-Tooth Cultivator



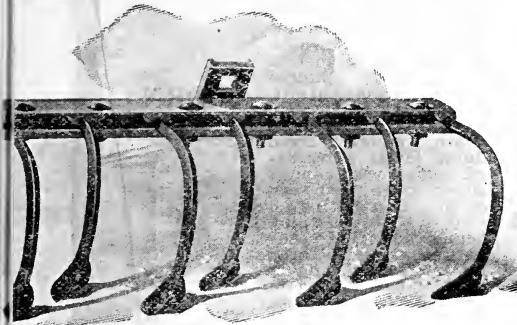
For garden, truck patch, orchard or field work. This tool is finely built throughout. Frames are high carbon steel, and are made extra long to avoid clogging in narrow rows. Standards high, reducing draft, and adjustable to change pitch of shovels. Price, \$11.00.

Cultivator Hoes



Two prongs are changeable for rows of any width. Loosening nuts, releases the prong. Works between rows or center prong can be removed and rows straddled. A perfect weeder and pulverizer, giving level cultivation. Head made entirely of steel. Light, well made, serviceable. Blue finish. 4½-foot handle. 5-prong, price \$1.25, weight 5 lbs.; 3-prong, price, \$1.00, weight 4 lbs. Add postage.

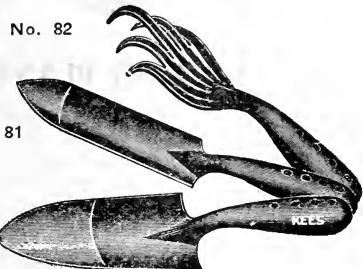
Cultivator Attachments



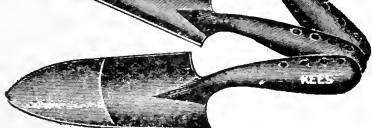
Here's a seven-prong cultivator attachment. Prongs are made of best forged blades, and each prong can readily be removed. Attachable to any standard plow on the market. Permits a scope of cultivation impossible with stationary prong cultivators. Width 12 inches. Weight, 3 lbs. Price, \$1.25; add postage.

Garden Trowels

No. 82



No. 81



No. 80



NO. 80 — GARDEN TROWEL — One-piece heavy pressed steel. Blade and handle formed from a single piece of steel. Handle cannot come off nor break.

Blade 6 $\frac{1}{4}$ inches long, 3 $\frac{3}{8}$ inches wide, handle 5 inches long. Blade ground and polished. Handle perforated. Beautiful dark blue lacquer finish. Price, 25c; postpaid 30c.

NO. 81 — TRANSPLANTING TROWEL — Stamped steel, blue lacquer finish.

One-piece heavy pressed steel. Blade 6 $\frac{1}{4}$ inches long by 1 $\frac{1}{8}$ inches wide. Otherwise like No. 80. Price, 25c; postpaid, 30c.

NO. 82 — GARDEN WEEDE — Pressed steel, blue lacquer finish.

One piece heavy pressed steel. Has five corrugated fingers with ground and polished points. Round, perforated handle. Blue lacquer finish. Length, over all, 9 $\frac{1}{2}$ inches. Price, 25c; postpaid, 30c.

NO. 183 — GARDEN SET — Pressed steel, blue lacquer finish.

Set of three pressed steel garden tools: No. 80, Garden Trowel; No. 81, Transplanting Trowel; No. 82, Garden Weeder. All made one-piece, pressed steel, beautifully finished in blue lacquer. One set in a carton. Price, 65c; postpaid, 75c.



Five prong, corrugated handle. Price, 50c; postpaid, 60c.

CORN KNIFE

NO. 6 SPECIAL STEEL — Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21 $\frac{1}{4}$ inches. Number of rivets, 3. Weight, 2 lbs. Price, 75c. Add postage.

Planters

POTATO PLANTER

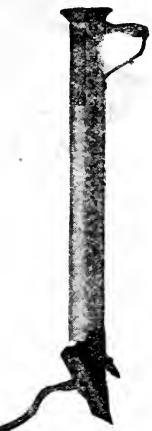
PINGREE OR ACME — Is practically the same as the Acme Tubular without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Weight 5 lbs.; price, \$1.25; add postage.

POTATO PLANTER

ACME SELF - LOCKING TUBULAR — The jaws are formed from bright steel dipped in a special preparation to prevent rust. The lock is secured by the front jaw slipping down $\frac{3}{8}$ of an inch, which causes a pair of studs on its upper corners to slip over corresponding shoulders in the rear jaw. When thrust into the soil to deposit the seed, the front jaw is pushed up, releasing the lock. Galvanized iron tapered conveying tube.

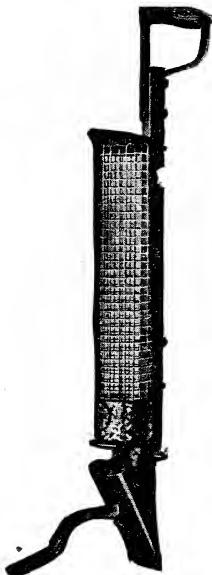
Weight 6 lbs.

Price, \$1.75; add postage.



CORN PLANTER

ACME ROTARY AUTOMATIC — Pressed steel hopper. Hopper cup conveyor, depth gauge, dump, foot and cut-off box. Cast frame (or basket.) Disc or seed plates are adjustable by means of a thumb nut to suit various sizes of kernels. Used in one hand like a walking stick. Disc is set for correct number of kernels by loosening thumb nut. moving star until pockets are of right size, then tightening thumb nut again. Plunge planter into the ground, work forward to trip seed, and withdraw. Double coil spring automatically rotates disc and closes jaws, thus filling same for next hill. Wt., 6 lbs. Price, \$2.50; add postage.

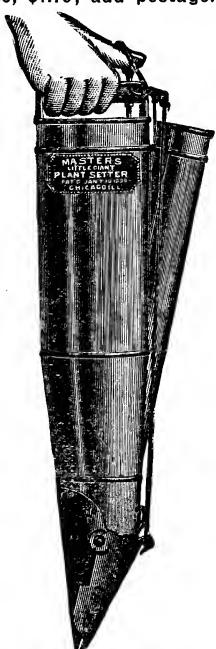


Master's Rapid Plant Setter

Each plant is SET, WATERED and COVERED in one operation without any stooping and no lame backs. A man simply walks along in an upright, comfortable position and will set from 8,000 to 15,000 plants per day and never have to bend his back. It does perfect work. The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water. Weight, 6 lbs. Price, \$6.00; add postage.

POTATO PLANTER

ACME WIRE TUBULAR — Strong hardwood handle, set into malleable iron socket securely riveted to back jaw. Foot plates provided on socket. Adjustable dump or depth gauge. Wire mesh conveying tube by which each seed can be seen when passing through the tube. Weight, 6 lbs. Price, \$1.75; add postage.



ACME SEGMENT—

Automatic slide type. Segmental pressed steel slide, adjustable for number of kernels, running in segmental steel track. Chinese bristle brush cut-off. Double soil steel spring, adjustable depth gauge, fixed dump lever, galvanized hopper with hinged cover, galvanized seed spout. Can be used also for planting beans. Pumpkin seeds may also be planted by operator dropping seed into hole in spout. Weight, 5 lbs. Price, \$2.00, add postage.

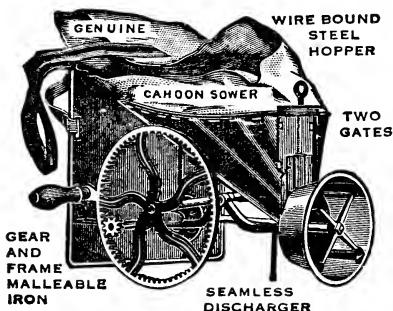
CORN PLANTER



CORN PLANTERS

ACME OR TRIUMPH—The segmental slide is of pressed steel, adjustable to vary the drop. The jaws are of pressed steel securely riveted to hardwood sides, and the cover of hopper is also steel with hinges to fit over the top. The hopper, hopper bottom and conveyor tube are of pressed steel, thus making the planter complete, without a casting in its construction. Weight, 5 lbs. Price, \$1.35; add postage.

GRASS SEEDER Genuine Cahoon



First—The Genuine Cahoon Seed Sower has a malleable iron frame, handle gear and other parts, which in the other machines are cast iron, more easily broken.

Second—The top of the hopper on the Genuine

Cahoon is wire bound, making it stiffer and stronger.

Third—The bag of the Genuine Cahoon is made of 7-ounce duck, that on the other machines is made of lighter, less durable material.

Fourth—The genuine Cahoon has a double gate, larger for grain and the smaller for grass seed, with a gauge which permits of setting the gate properly to sow a certain quantity per acre.

Fifth—The Genuine Cahoon is speeded so that the operator walking at an ordinary gait makes one complete revolution of the crank with each step, which is a rule very easily followed. Weight, 8 lbs.

Price, \$5.00. Add postage.

Giant Golden Bantam Corn, Inland's special strain, is par excellence.

See Pages 9-10.



THE CYCLONE SEED SOWER

THE SOWER THAT
SCATTERS EVENLY

seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs.

Price, \$2.50; add postage.

GRASS SEEDERS

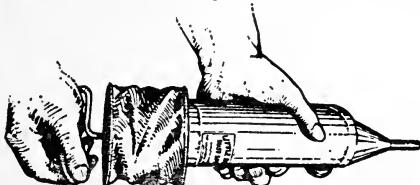


WHEELBARROW—They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder is constructed on up-to-date principles. It has a strong steel wheel, 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a device that engages the wheel close to the hub. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing the pin in the index plate as thereon indicated. 14-foot spread.

Price, \$15.00.

DUSTERS

The Little Beauty Garden Duster



Most powerful hand duster built. Holds $\frac{1}{2}$ pound of dust. Throws dust cloud twelve to fifteen feet.

Built especially for suburban home owners having a few small trees to care for.

So constructed that an even feed is obtained whether the blast is directed ahead or up or down.

Large filling opening. Loads quickly and easily. No mixing of liquids or using funnels.

Price, \$2.25. Postpaid, \$2.35.

IMPROVED CYCLONE

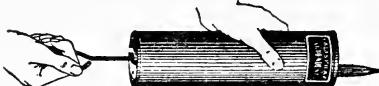
The improved "Cyclone" is the only Hand Seed Sower that is framed together with a slope feed board.

Automatic Feed Shut-off starts or stops flow of seed instantly.

The Improved "Cyclone" is guaranteed to sow perfectly all seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs.

Price, \$2.50; add postage.

Calispray Garden Duster

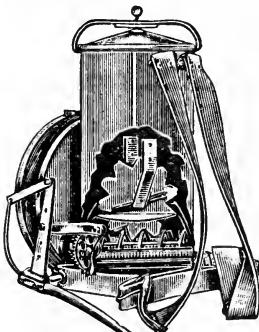


The ideal duster for flower or vegetable garden. Holds $\frac{1}{4}$ pound of dust. Throws cloud six feet. Has self lubricated plunger. Plunger rod held rigid in steel tube. Has deep lip on filling opening. Does not wear loose and uses less in a short time.

Price, \$1.25. Postpaid, \$1.35.

American Beauty

THE WORLD'S FINEST ONE-MAN DUSTER



Price, \$18.00.
Weight, 18 lbs.
Add postage.

When dusting is to be well done and a great deal depends on perfect protection from insect pests and disease, the supremacy of the American Beauty has never been questioned.

Its high quality, stability and perfect performance make it ideal for growers of valuable crops.

The gears and rocker arms on the American Beauty are pressed steel. There is no wear out to this American Beauty.

Calispray Puffer

Most powerful dust puffer built.

Made of metal with heavy bellows.

Ideal for applying Flea, Fly, Moth, or Insect powders. Easy to fill. Holds two ounces. Throws cloud four to six feet.

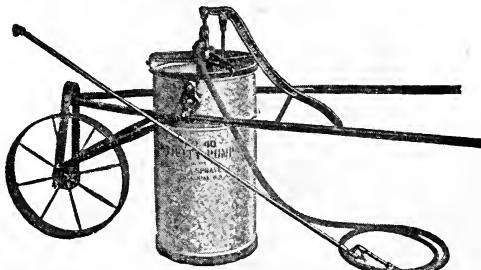
Price, 25c; postpaid, 30c.



Pumps

UTILITY SPRAY OUTFITS

This Outfit is Light, Compact, Easy to Operate



No. 40

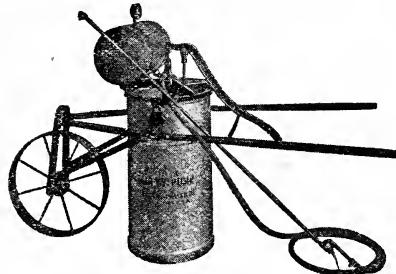
TANK is larger than most similar outfits, made of heavy galvanized iron, reinforced at

top and bottom with heavy band iron rings. Capacity, 18 gallons.

PUMP—The cylinder is made of heavy brass tubing and has brass plungers packed with specially treated cotton wick to resist action of chemicals; can be tightened or expanded without removing from cylinder. Valves and all parts that come in contact with liquids are brass. Iron handle of good length makes pumping easy; 175 pounds pressure is easily maintained. Mechanical agitator keeps liquids thoroughly mixed. A fine strainer at suction end prevents sediment getting into working parts of pump.

FRAME substantially built of steel, well braced and balanced.

Price, \$26.50.



No. 40A

No. 40A—Same in construction as No. 40, but equipped with an air pressure tank mounted on pump casting. This makes a one-man outfit. By obtaining 250 pounds pressure considerable spraying can be done without pumping.

Price, \$40.00.

Utility Compressed Air Sprayer



No. 10

Tank—Size, $7\frac{1}{4}$ by 20 inches; capacity, $3\frac{1}{2}$ gallons. The convex flanged ends of 20-gauge material, the closely riveted and well soldered

cylinder, double folded at top and bottom, makes the tank very strong.

Pump—The plunger is fitted with a well-formed high-grade leather and operates easily in a heavy brass cylinder $1\frac{3}{4}$ inches by 15 inches long. The bronze ball check, seating on brass, will not deteriorate.

Hose— $\frac{1}{2}$ -inch, 5-ply, 24 inches long, on standard hose connection with wire coil that prevents kinking, nozzle pipe and hose connection cemented into hose and fastened with brass ferrules.

Nozzle—Angle automatic, self-closing type; made of brass, equipped with strainer and two extra spray discs.

Galvanized tank, \$6.50; brass tank, \$9.00. Weight, 11 lbs. Add postage.



No. 20

Tank—Same size, material and construction as the tank used in No. 10 compressed air sprayer.

Pump—Placed in center of tank to prevent possibility of being damaged. The pump handle is non-breakable, as it is a continuation of the steel plunger rod, to which is fitted a well formed high grade leather, which operates easily in a heavy brass cylinder $1\frac{3}{4}$ inches in diameter by 15 inches long. The bronze ball check, seating on brass, will not deteriorate like rubber or leather when strong liquids or oils are used.

Hose— $\frac{3}{8}$ -inch, 5-ply, 24 inches long. Attached to tank with removable connection.

Nozzle—Straight Automatic, self-closing type, made of brass and equipped with strainer and two extra spray discs.

Galvanized tank, \$5.50. Weight, 9 lbs.; add postage.

Spray Gun

(See illustration on page 77)

With a spray gun an orchard can be sprayed in one-half the time required when using extension pipes, changing from the wide mist spray to long distance spray requires only a quarter turn of the handle grip. Length overall, 23 inches. Weight, $2\frac{3}{4}$ lbs.

Price, \$6.50. Add postage.

Knapsack

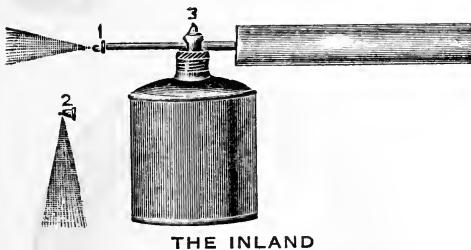


This is a genuine knapsack sprayer and is carried on the back of the operator and fits snugly to the back. Galvanized tank holds four gallons. Pumping made easy because of the long lever placed at the right side of the operator. Instantaneous shutoff which prevents waste of liquid. Carrying straps made wide for comfort. Three feet of $\frac{5}{8}$ -inch hose furnished. Price, \$15.00. Weight, 30 lbs. Add postage.



Spray Gun

Continuous Sprayers



THE INLAND

The Robertson Patent Pump enables the manufacturer to make a better sprayer than it is possible for any other manufacturer to make without infringing on this patent.

These sprayers have a universal Nozzle that sprays up and down and to either side, in addition to the direct spray nozzle.

Price, tin, \$1.00; brass, \$1.50. Weight 2 lbs. Add postage.

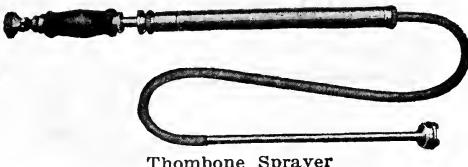
Household Sprayer



This sprayer is particularly designed for household uses and handles fly oils, moth preventives and all household disinfectants. Price, 25c. Weight $\frac{3}{4}$ lb. Add postage.

Trombone Sprayer

The Trombone Sprayer is a high pressure spray pump adapted for spraying orchards, vineyards, shrubbery, shade trees, potatoes and field crops; for white-washing, disinfecting,



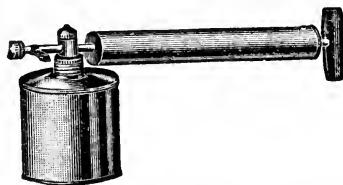
Trombone Sprayer

spraying stock dip and fly oils, washing windows and automobiles. It is double acting and continuous, maintaining a steady discharge without undue exertion on the part of the operator. All parts are brass, with bronze ball valves, easily accessible for cleaning, etc. Fitted with 3 feet of $\frac{5}{8}$ -inch spray hose, intake pipe and strainer, weighted so as to remain in barrel or pail when being used. Fog nozzle with reversible discs for various jobs. Can be used with extension if desired, for reaching under sides of plants, etc.

	Price	Weight
Trombone Jr.	\$4.00	4 lbs.
Trombone Sr.	5.00	6 lbs.

Add postage.

The G. V. Continuous Variable Sprayer No. 1 Tin



The pump and atomizing head of the G-V Continuous Variable Sprayer will last indefinitely. A new container can be purchased, thereby giving you practically a new sprayer.

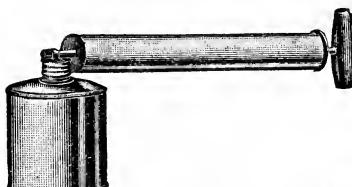
As a sprayer for paint the G-V Continuous Variable Sprayer has been thoroughly tested and has proven very satisfactory for use with brushing lacquers.

Capacity, 1 qt. Brass atomizing head. Pump, 12 inches long, $1\frac{1}{4}$ inch diameter.

Price, \$1.50; weight, 2 lbs.; add postage.

Container for No. 1, price, 40c; weight, 1 lb.; add postage.

The G. V. Intermittent Sprayer No. 5 Tin

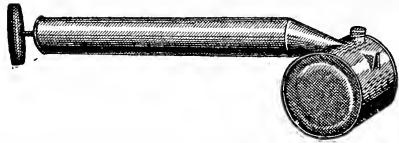


50% more spray for the same effort, due to the absolutely new and patented atomizing head. Pump 14 in. long, $1\frac{1}{2}$ in. in diameter; capacity, 1 quart.

Price, 75c; weight, 2 lbs.; add postage.

Container for No. 5—Price, 40c; weight, 1 lb.; add postage.

Inland Special Sprayer



Inland Special Sprayer is a Single Tube Tin Sprayer. The pump cylinder measures $1\frac{1}{4}$ inches in length by $1\frac{1}{4}$ inches in diameter.

Sprayer is fitted with a $\frac{1}{4}$ -inch steel plunger rod; special type plunger. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Weight, 2 lbs. Price, 50c. Add postage.

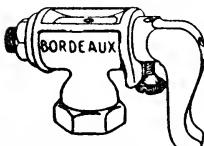
Baby Midget Sprayer



A small size single tube Tin Sprayer for household use. Strong and substantial and possessing every feature of the larger types.

TANK: Tin, 3 inches in diameter, $2\frac{1}{2}$ inches long; $\frac{3}{8}$ -inch can screw for filling; $\frac{1}{4}$ -inch plunger rod. Black handle and plug. Pump tube, $1\frac{1}{4}$ inches in diameter, 10 inches long. Length over all, $15\frac{1}{2}$ inches. Capacity, about $\frac{1}{2}$ pint. Price, 35c. Weight, 1 lb. Add postage.

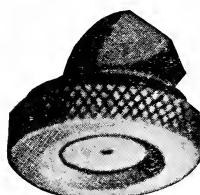
NOZZLES



BORDEAUX — The handle is built close down to the body and is shaped so as to avoid catching in the branches. The corners of the slot are cut away, leaving plain

straight faces which form a clean-cut spray without ragged edges. Price \$1.25; postpaid \$1.30.

CLIPPER (Patented) — The spraying lips are so shaped that all parts of the spray travel the same distance from the lip. It throws either a fan-shaped spray, a long-distance spray or a solid stream. Especially adapted for white-washing. Price, \$1.25; postpaid, \$1.30.



MAJESTIC ANGLE — Throws a very large, beautiful, penetrating spray. Fitted with removable eddy chamber. The nozzles can be easily taken apart and cleaned. Wearing parts are cheaply and quickly replaced. Extra metal disc furnished with each nozzle. Price, \$1.00; postpaid, \$1.05.

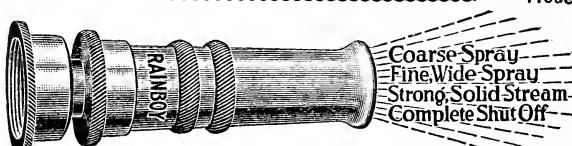


Illustration shows Angle Adjustable Nozzle in the extended form on spray rod.

Valves of nozzles are brass with unusually large waterways and strainer to prevent clogging when spraying whitewash or other heavy mixtures.

With our patent feature the shut-off is always at discharge end regardless of what length of pole is used. This eliminates use of stop-cock. Nozzle seats are brass, not rubber.

Price, each, \$2.00; postpaid, \$2.05.

VERMO REL —

This nozzle throws a beautiful, misty, circular spray. All trouble caused by clogging in the bend is avoided by having the stem detachable. This also shows the nozzle to be turned at any angle desired. Price, \$1.00; postpaid, \$1.05.



1/4 NOZZLE ELL — It is very important to spray down into the blossom. This piece has just the right angle and screws onto the end of any spray rod. Then attach the nozzle.

Price, 25c; postpaid, 30c.

Hose



As is well known there are various grades of hose, but it is poor economy to purchase an inferior grade as inferior grades have not the wearing qualities. We only handle one grade, namely the Mogul, and this is recognized as of superior quality. Put up in 50-foot lengths, all fitted. Price, \$5.50.

Hose Washers, $\frac{1}{2}$ -inch rubber, doz., 10c.

Lawn Nozzle

RAINBOY

Easily regulated to throw a fine stream or spray or a solid stream. Complete shut off.

Each, 60c.

Lawn Sprinklers



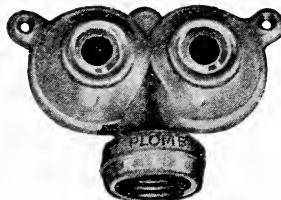
CROWN

Throws a fine mist and covers a large area.
Each, 90c.



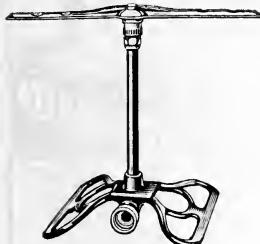
CRESCENT

Throws all the water to the front and sides.
Each, 80c.



TWINS

Covers a wide area very evenly. Very popular.
Each, 30c.



FAIRY

Revolving sprinkler.
11 inches high.
Each, \$1.75.



BIRDIE

Revolving sprinkler, 5 inches high.
Each, \$1.35.



WHIZ

Covers a large area uniformly.
Each, \$1.00.



CRICKETT

Specially designed for extensions.
Each, \$1.10.

SPRAY MATERIALS

It is important that the orchardist should become familiar with the name and character of the different diseases and pests. If the disease is not known apply to your inspector for information. Specimens of diseased fruit or leaves or other portions of trees or plants may be forwarded to your state experiment station without cost, where a careful microscopic examination will be made and the disease identified.

All Round Spray

All Round Spray will sweep away your insect troubles. A Triple service product composed of the three major classifications of pests. Effective, yet hardly more than the price of one.

Nicotine Sulphate—to control sucking insects such as aphids (plant lice), thrip and leaf hopper.

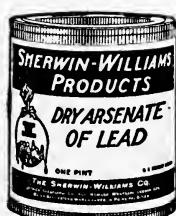
Arsenate of Lead—to destroy the chewing insects, slugs, beetles, caterpillars, worms.

Bordeaux Mixture—to prevent blight and fungous diseases.

1/4 lb., 40c; 1 lb., \$1.00. Not mailable.



Arsenate of Lead



Owing to unsettled conditions the quotations made on spray materials are not guaranteed. Write for price, stating size and quantity wanted.

Dry Powder Arsenate of Lead may be mixed with water and applied as a liquid spray or it may be used as a dust spray. If applied as a liquid spray it is usually used 1 pound to 1 1/2 pounds to 50 gallons of water. For potato beetles and other insects that are hard to kill use two to three pounds to 50 gallons of water.

1/2 lb. \$0.25 4-lb. pkg. \$0.75
1 lb.40 Case, 48 lbs. 9.25

ATLACIDE
NON-POISONOUS
WEED KILLER
PATENTED
DUSTER

Atlacide Non Poisonous Weed Killer Duster eliminates all undesirable vegetation including Poison Ivy, Canada Thistle, Johnson Grass, etc., without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses to be killed.

1-lb. Duster kills 100 sq. feet of weeds.
3 1/2-lb. Duster kills 350 sq. feet of weeds.
50-lb. Drum kills 5,000 sq. feet of weeds.
100-lb. Drum kills 10,000 sq. feet of weeds.
200-lb. Drum kills 20,000 sq. feet of weeds.
Ask for prices.

Black Leaf 40

A Concentrated Solution of Nicotine-Solution (Poison)

For the convenient information of those desiring to use "Black Leaf 40" the following suggestions are made:

Against sucking insects, such as Green and Woolly Aphid, Pear Psylla, Grape Leaf Hopper, Pear Thrips, etc. 1 part "Black Leaf 40" to about 900 to 1,000 parts water.

Against more resistant plant lice, such as as

Spray

"Black Leaf 40"
40% Nicotine Leaf
Kills Aphis 40'



Black Aphis and Rosy Apple Aphis, 1 part "Black Leaf 40" to about 500 to 700 parts water.

The addition of one or two pounds of any good soap, or of Whale Oil soap, to each 50 gallons of water is often very advantageous. When using dissolve the soap in the water before adding "Black Leaf 40."

1-oz. bottles	\$0.35	2 lbs.	\$3.75
1/2-lb. bottle	1.25	5 lbs.	7.00
1-lb. bottle	2.50	10 lbs.	11.85

Not mailable.

BORDEAUX MIXTURE

Dry Bordeaux is a dry powder. Keep tightly closed and away from moisture as much as possible.

It stays in suspension well, adheres to the foliage and can be used in combination with Paris Green. Arsenate of Lead or other insecticides with an extraordinary degree of safety.

1 lb., 35c; 4 lbs., 75c.



DRY LIME SULPHUR

Containing Other Compounds

Directions: From ten to twelve pounds of Dry Lime Sulphur dissolved in fifty gallons of water should be used as dormant spray against scale, insects, etc. From two to three pounds to fifty gallons of water in combination with the usual proportion of Dry Arsenate of Lead should be used for summer spraying on all seed fruits, such as apples, pears, quinces, etc. From one to one and one-half pounds to fifty gallons of water in combination with the usual strength of Arsenate of Lead should be used for summer spraying of peaches, plums and all stone fruits.

1 lb.	\$0.30	50 lbs.	\$ 6.50
5 lbs.	1.20	100 lbs.	11.50
10 lbs.	2.10	200 lbs.	21.00
25 lbs.	3.50		

Special pack, 25 lbs. in paper bags, 2 in carton. 25 lbs., \$3.00; carton, \$5.75.

We do not ship 25-lb. paper bag but do ship carton.

EVER GREEN

NON-POISONOUS INSECTICIDE

The active principle of Ever Green is Pyrethrum, or insect flowers. Pyrethrum is a flower closely resembling the field daisy. It is grown in Japan and Dalmatia.

Pets, poultry, livestock and birds are safe. Garden produce such as lettuce, celery, greens, cucumbers, etc., can be eaten uncooked without the slightest danger.

TWO TYPES OF INSECTS

There are two types of insects—chewing, which eat the leaves and blossoms; sucking, which suck the sap from leaves or stems.

EVER GREEN kills both chewing and sucking insects. The sucking insects must be killed by "contact." Chewing insects can be killed by spraying insecticides on the leaves that they feed on.

ADVANTAGES OF USING EVER GREEN

Non-poisonous. Non-injurious to plants, blossoms or foliage. Kills chewing and sucking insects.



Postpaid

1-oz. bottle	\$0.35	Postpaid	\$0.45
6-oz. bottle	1.00		1.10
16-oz. bottle	2.00		2.10
32-oz. can	3.50		
Gallon can	13.00		

Only forward the three small sized bottles by parcel post. Other sizes must go by express or freight.

Hammond's Grape Dust

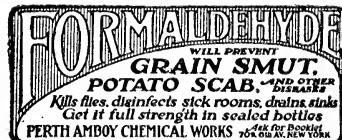


To prevent mildew on roses, grapes and gooseberries. Lb. pkg., 35c; 5 lb. pkg., \$1.25; add postage.

Hammond's Slug-Shot



For destroying slugs, cabbage and turnip flea, currant worms, etc. Lb. pkg., 30c; 5-lb. pkg., \$1.00; add postage.



Directions

BARLEY—Put one pint in 40 gallons of water, dip barley in loose gunny sacks, soak for two hours; spread out and dry after draining.

OATS—Use one pint in 10 pints of water. This quantity, 11 pints, will treat 55 bushels at the rate of 1 pint to 5 bushels.

POTATOES—Use one pint to 15 gallons of water. Heat solution 118 degrees to 122 degrees Fahr. in tank with heater. Dip uncut potatoes for two minutes either in sacks or crates, then cover with canvas for an hour.

WHEAT—Put one pint in 40 gallons of water and follow directions given for barley, or any other plan that the farmer may prefer.

Price: Pints, 60c; quarts, \$1.00; gallon, \$3.50; 5-gallon can, \$16.50. Pints and quarts packed in glass. Gallons in glass or jugs. Packed carefully but safe delivery not guaranteed. Not mailable.

Semesan



Semesan Disinfectants have revolutionized seed disease treatment and represent the most remarkable advancement of the century in scientific agriculture.

This modern disinfectant comes in dust form and can be applied to control a most diversified variety of parasitic diseases and fungous growths borne by seeds, plants, grafts and soil. Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms. It generally also hastens germination, produces sturdier plants, promotes earlier maturity and increases both the quantity and quality of crop yields.

For most flower and vegetable seeds use one ounce of Semesan to each 15 pounds, but to dust field crops use two ounces per bushel for the large varieties of seeds or three ounces for the small kinds. Put the seeds with the Semesan dust in any convenient receptacle and shake or rotate for three to five minutes.

2-oz. tin \$0.50 1-lb. tin \$ 2.75
8-oz. tin 1.60 5-lb. tin 13.00
Not mailable.

SEMESAN BEL—Can be applied in a few minutes to whole or cut seed potatoes, either as a dry powder or a whitewash-like water mixture. In widely separated potato-growing sections it has influenced quicker sprouting, earlier maturity and has caused greater yields and better disease-control than any other treatment known.

Dry seed potatoes may be most conveniently disinfected before cutting by gently rolling them and the Semesan dust together in a barrel or other cylindrical container for three to five minutes or until the tubers are thoroughly coated.

The Improved Semesan Bel shows substantial improvements in disease control efficiency, especially against seed-borne scab and rhizoc-

tonia. The new product also goes into water suspension still more readily than did the old, and also dries quicker on the potatoes.

4-oz. tins	\$0.50	25-lb. pail	\$ 37.50
1-lb. tins	1.75	100-lb. drum	120.00
5-lb. tin	8.00	Not mailable.	

SEMESAN JR.—Is a dust disinfectant used for the ear, root and stalk rots of field and sweet corn. By dusting seed corn with Semesan Jr., these diseases are controlled and yield increases are made possible.

It is used at the rate of 3 ounces per bushel of seed. The cost therefore ranges from only about 4c an acre of field corn to 6c or 7c per acre of sweet corn.

4-oz. tin	\$0.60	5-lb. tin	\$8.00
1-lb. tin	1.75	Not mailable.	

Ant Destroyer

Antrol



For sweet eating ants—the kind that infest the house and are frequently seen on plants and trees. This is a complete system adapted to any size house, composed of small glass containers and special Antrol syrup. The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.

Prices: Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c. Weight, 2 lbs. Add postage.

Antrol syrup, 4-oz. bottles, postage paid, 55c.

Antrol syrup, pint bottles, 75c; postage paid, 85c.

Cutworm Killer



Snarol

SNAROL quickly kills garden pests such as cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, etc.

SNAROL is a ready-prepared meal that you simply broadcast on the ground under the vegetation. The pests eat the meal in preference to plants, and are quickly destroyed.

SNAROL will not deteriorate from rain or sprinkling, and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls, and make Snarol popular with professional gardeners and nurserymen.

1-lb. packages	\$0.35	15-lb. bags	\$3.00
3-lb. packages	.75		

Strawberry Weevil Bait



GO-WEST

Go-West is a bait specially prepared to combat the ravages of strawberry weevil. This is recommended by authorities as it has proved to be highly successful.

50-lb. bag	\$8.00	100-lb. bag	\$15.00
Less than 50 lbs.		20c.	



Weed Killer

GETZUM GUNS deposit the poison in the weeds in a manner that kills the weeds, including the tap roots, without killing the surrounding grass.

It is a pleasure to walk around your lawn and garden using the "Getzum Gun" as a cane, depositing automatically a drop of Getzum into the circulation system of the weed. Nature then completes the work; destroying its entire root system.

Each, \$1.50. Weight, 3 lbs. Add postage.

RODENT DESTROYERS

Cyanogas

Prices not guaranteed on any rodent destroyer. Kills by giving off gas on exposure to the moisture in the air. This characteristic makes it easy to apply.

The residue after the gas has escaped is largely ordinary slaked lime, which is harmless to stock.

CYANOGAS—For controlling Ants, Rats, Moles, Fleas, Gophers, Sage Rats, Prairie Dogs, Ground Squirrels, Wire-worms, Snails, Slugs, Grape Leaf Hopper.

ANTS—Enlarge main opening with sharpened stick to depth of six inches; pour in teaspoonful of Cyanogas.

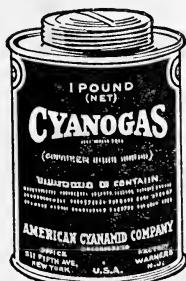
For large nests, make holes about eight inches apart; pour in tablespoonful.

A line of ants entering the house may be stopped immediately by placing small amounts of Cyanogas at intervals along their path.

GOPHERS—Early in the morning open runways near fresh mounds; insert 2 tablespoonfuls in each opening—or

At intervals in runway, insert 4 ounces; close opening.

GROUND SQUIRRELS—With long-handled spoon insert 2 ounces in each burrow opening. Columbian Ground Squirrel—With long-handled spoon insert 1 ounce in each burrow opening.



Sage Rats and other Small Squirrels—One ounce, with long-handled spoon.

Granular—1 lb., 75c; 5 lbs., \$1.75; 25 lbs., \$5.50; 100 lbs., \$20.00.

A-Dust—1 lb., 75c; 5 lbs., \$2.50; 25 lbs., \$5.50; 100 lbs., \$20.00.

G-Fumigant—1 lb., 75c; 5 lbs., \$3.50; 25 lbs., \$10.00; 100 lbs., \$30.00. Not mailable.



Kill Rats Without Poison with K-R-O

Won't Kill Livestock, Poultry, Dogs, Cats or even Baby Chicks.

K-R-O can be used with safety around the home, barn, poultry yard or anywhere, as it contains *no deadly poison*.

Results guaranteed or your money back from us.

Don't take chances with poisons.

Read what your neighbor says of K-R-O.

Owing to the fact that K-R-O is harmless to human beings and animals it can be forwarded by mail. Price, 75c; postpaid, 80c.



Mouse Seed can be used without bait, without traps, without muss.

Mouse Seed is real seed—that kills mice. It

attracts them wherever it is left.

Pour a pile of seeds out of the package on a saucer. The mice, attracted by the flavor, will gnaw the kernels, leaving the husks.

The cleanliness, safety and certainty of Mouse Seed make it the ideal means of exterminating mice. It replaces pastes, powders, and traps.

Oz. packages, 25c; lb. packages, \$2.00. Post paid, 30c and \$2.10.



Woodlark Squirrel Poison

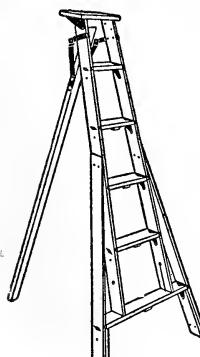
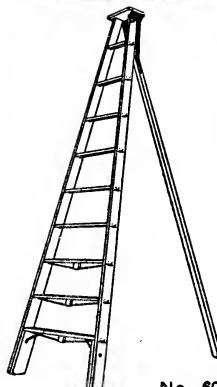
Requires no mixing preparation—always ready for use. When you buy demand the best. Get the "Woodlark" brand. Lb., 45c; 10 lbs., \$4.00. Not mailable.

FRUIT LADDERS

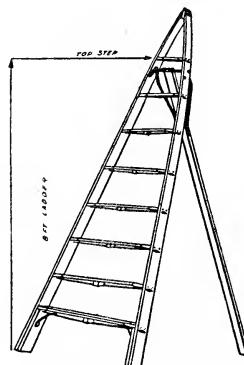
The Northwest is the old standby for fruit pickers because it is light and stands solid. No side swaying. The construction is so it braces each way from the heavy steel head block to the bottom braces, riveted to the sides and bottom steps. Brace rods under each step, with long washers. The third leg is all riveted to top, sides and head board. No bolts or nails to work loose.

Clear spruce, which is light and strong, in each ladder.

No. 60



No. 200



No. 70

No. 60—6 and 8 feet as per cut; 10 and 12 feet, same ladder with side extensions. 55c per foot.

No. 200—10 and 12 feet, as shown in cut; 6 and 8 feet, same ladder without side extensions. Price, 65c per foot; 14 foot, 70c per foot.

No. 70—8, 10 and 12 feet. 70c per foot.

CLOVER LEAF FRUIT PICKING BAG

The Clover Leaf Picking Bag is constructed of heavy canvas with a spring steel frame at top. The lower end of the bag folds squarely back to the steel frame at the top. The lower portion of the sack being held securely by means of an ingenious fastener. To empty bag release the string and deposit fruit in box.

Price, \$1.75. Weight, 3 lbs. Add postage. Price subject to change.

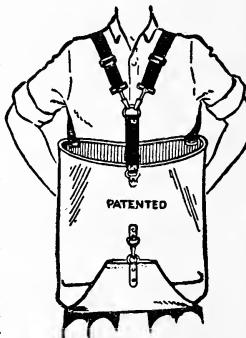


INLAND FRUIT PICKING BAG

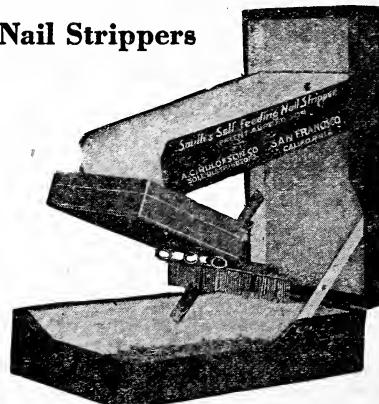
The mouth of the bag is always open, being constructed with a novel shaped metal frame so that the hands of the pickers can go with the fruit to the bottom of the bag. Bottom of the bag is opened instantly by the snap and fruit is emptied out without bruise or injury.

When snapped at top loop the bag will hold one-half bushel; when snapped at bottom loop as shown in cut the bag will hold about a bushel.

Price, \$2.25. Weight, 3 lbs. Add postage.



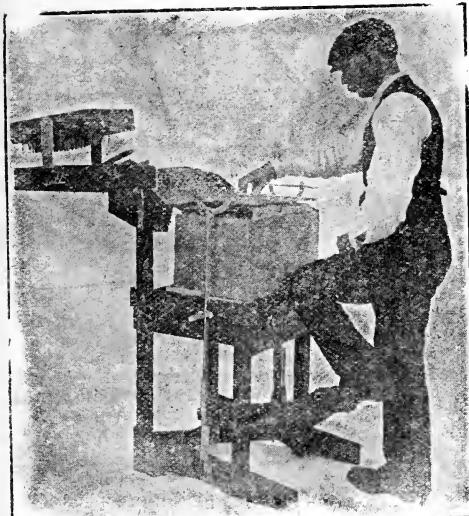
Nail Strippers



Self feeding. No time lost in keeping full. Adjustable. Handles all size nails from 2 d. to 10 d.

Smith's (cut). Price, \$12.00. Weight, 8 lbs. Add postage.

LID PRESS



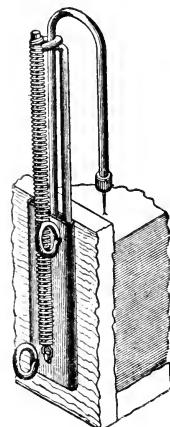
All fruit growers sooner or later feel the need of a good, durable and handy LID PRESS.

Special features of the Edgemont Lid Press: The stripper nail box delivering the nails all pointed down; the placing of the lids in position endwise by the clamping yoke; the spring attachment holding the cleat in place, all tend to make nailing easy, quick and simple.

Price, \$22.50. Price subject to change.

Paper Holder

A model of simplicity, handiness and usefulness. Saves paper and increases the speed of the user. An all-purpose holder and a necessity for every fruit packer. Holds from one to 1600 wraps. Neat, rust-proof and lasting. Folds up and can be carried in pocket. Price, \$1.00.



Our special strain of Giant Golden Bantam Corn is unexcelled for flavor and size of ears.

See Outside Back Cover.

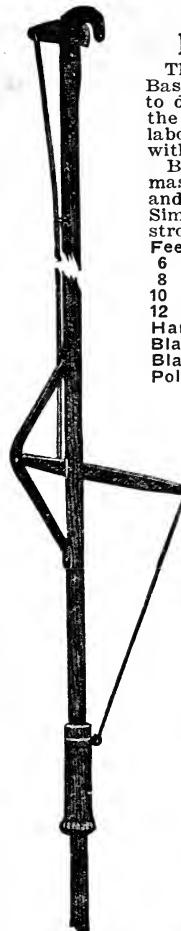
PRUNERS

Bastian Pruner

The powerful lever of the Bastian Pruner enables one to do the same work in half the time and with half the labor that would be required with old-style Pruner.

Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable.

Feet	Price
6	\$2.00
8	2.25
10	2.50
12	2.85
Handle slides	.20c
Blades	.30c
Blade Screws	.10c
Poles	\$1.25

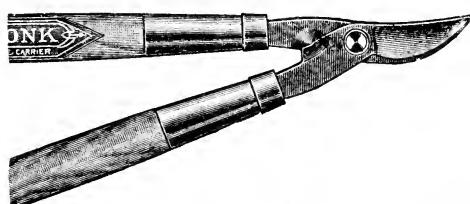


Bastian

Steel ferrule. Notched hook (patented), prevents slipping, gives greater leverage, and makes cutting easier. No. 9½, 26 inches. Weight, 3 lbs. Price, \$1.75; add postage.



No. 9½.

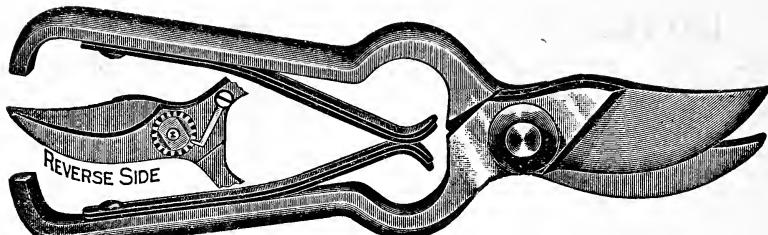


Blades and hooks forged from special selected quality tool steel and tempered. Handles natural finish with 4-inch steel ferrule and cap finished in black enamel.

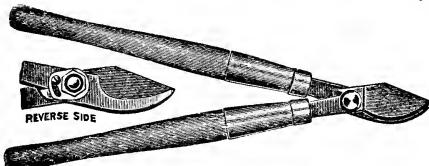
No. 326—26 inches; weight 3 lbs. Price, \$2.75.

No. 330—30 inches; weight 4 lbs. Price, \$3.00. Add postage.

Pruner handles with ferrule, 20-inch, 50c; 24-inch, 55c; 30-inch, 60c each; weight 3 lbs. Add postage.



No. 700—Ratchet nut. Brass spring. Extra quality steel. Length, 8½ inches. Price, \$3.25; postpaid, \$3.35.

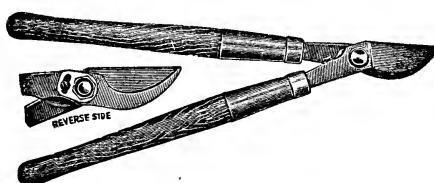


FRESNO PATTERN—Forged from high grade tool steel, finely tempered. Solid wrought steel ferrule. Has lock nut and can not work loose and ruin the shears. Riveted handle. Strictly high grade and has no equal.

No. 126—26 inches, weight 3 lbs. Price, \$2.25.

No. 130—30 inches, weight 4 lbs. Price, \$2.50.

Add postage.

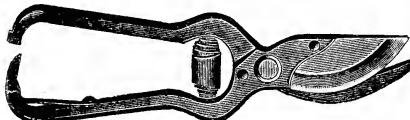


CRONK'S EXTRA HEAVY—Forged from high grade tool steel and finely tempered, wrought steel ferrule polished. Has the Cronk patent locknut and can not work loose and ruin the shears. Riveted handle.

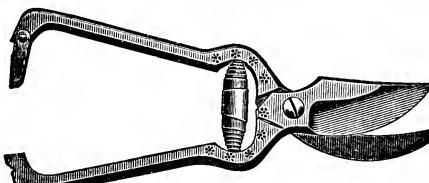
No. 226—26 inches, weight 3 lbs. Price, \$2.50.

No. 230—30 inches, weight 4 lbs. Price, \$2.75.

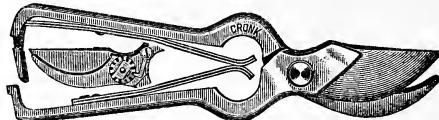
HAND PRUNERS



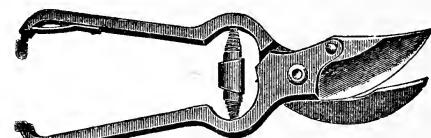
No. 17—Length, 9 inches. Detachable polished tempered steel blade. Price, 85c; postpaid, 95c.



No. 250—Forged from best cutlery steel. Nickel plated, 7 inches. Price, \$1.50; postpaid, \$1.60. Known as Rose or Ladies' Pruners.



600—Forged from best cutlery steel, full polished, 8½ inches. Price, \$2.25; postpaid, \$2.35.



27—Length, 9 inches. Detachable blade of cutlery steel. Notched hook, forged from tool steel, full polished and tempered. Price, \$2.00; postpaid, \$2.10.

Springs

Volute springs for hand pruners. Each, 15c.

Volute springs for No. 203. Each, 15c.

Springs for No. 101. Each, 15c.

Grape or Thinning Shears



101—Length, 6½ inches. Made extra heavy. Price, 50c; postpaid, 55c.



203—Same as 101, but longer and has volute spring. Price, 60c; postpaid, 65c.

Saws

No. 10. Tapered Pruner



The frame is made of extra high quality spring steel, 5/8 of an inch wide and 1/4-in. thick. The blade is extra high quality Pruning Saw

steel, $13\frac{1}{2}$ inches long. The handle is ATKINS new easy grip pattern and is in popular favor wherever used. It is made of beechwood thoroughly seasoned, highly finished and polished on the edges, fastened to the frame by two brass screws. The blade is adjustable so that the saw will cut at any angle. Length of saw frame, 16 inches. Price, \$2.50; postpaid, \$2.60. Extra blades, 40c; postpaid, 50c.

No. 1. Atkins Table and Pruning Saw



The blade tapers from $2\frac{1}{2}$ inches to 1 inch, and is made of genuine Silver Steel. The finest steel that has ever been used in saw blades. The handle is of hardwood, finely finished, polished edge. Blade is 14 inches long.

Price, \$1.90; postpaid, \$2.00.



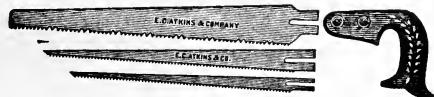
NO. 4

The blade is heavy-gauge and is of Atkins High-Grade Special Steel, tempered very tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade by three brass screws and a medallion. Blade 20 inches. Price, \$2.00; postpaid, \$2.10.

No. 2. Duplex Pruner

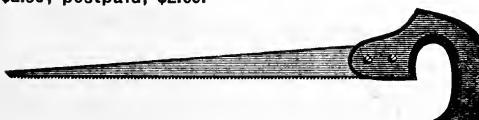


Made of Atkins Silver Steel, specially hardened and tempered. Will require very little resharpening. Toothing on one edge with tuttle shaped teeth for extra heavy coarse work and with fine teeth on the opposite edge for fine cutting. The handle is of thoroughly seasoned, air dried applewood, finely finished, varnished edge. Easy Grip Pattern, fastened to the blade by three brass screws. Length, 14 inches. Price, \$1.25; postpaid, \$1.35.



Nest No. 1

We recommend this set for general purposes. It consists of a keyhole, compass and pruning saw blade and handle as illustrated. Price, \$2.50; postpaid, \$2.60.



No. 8—The blade is heavy gauge and is of high-grade special steel, tempered tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade by three brass screws and a medallion blade; 14 inches in length. Price, 45c; postpaid, 55c.

No. 18 Folding



This is similar to the No. 13, except it is supplied with a folding handle, enabling the user to turn the tooth edge down for the purpose of putting in pocket. Made of silver steel, highly polished. Peg teeth pitched back so as to be right angle at cutting edge. Blade 14 inches long. Plain sanded beech handle. Nickel screw. Price, \$1.45; postpaid, \$1.55.

No. 13. California Pruner



The blade is of the finest quality Silver Steel which is superior to any other saw steel. The curved blade makes cutting easy. The handle is of highly finished applewood. Blade is 14 inches long. Price, \$1.40; postpaid, \$1.50.

Grafting Wax

One-fourth lb., 20c; postpaid, 25c; $\frac{1}{2}$ lb., 30c; postpaid, 35c; 1 lb., 50c; postpaid, 60c.

Raffia

Natural color, for nursery work. Price, $\frac{1}{4}$ lb., 15c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; postpaid.

Tree Tanglefoot



To protect trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky three to four months fully exposed to the weather. Easily applied with a wooden paddle. One pound makes a band 8 to 9 feet long. No mixing, always ready for use.

Net Wt.	Gross Wt.	Price
1 lb.	$1\frac{1}{4}$ lbs.	\$0.60
5 lbs.	$5\frac{1}{2}$ lbs.	2.50
Add postage.		



For use on trees, shrubbery, etc., to stop bleeding of sap after pruning, and prevent worm-boring. Used extensively by large nurseries and fruit growers.

Directions: Best results are obtained by applying Pruning Compound at the time pruning is done.

Quarts, 75c; gallon, \$2.50. Not mailable.

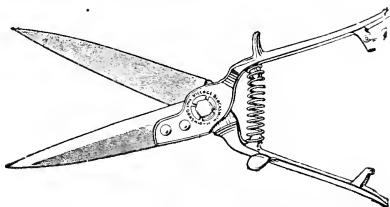
Lawn Edge Trimmer



With this tool the rough, straggling, overhanging grass along the edges of the walk can be trimmed in a few minutes. It plows a clean U-shaped trench, delivering the cutting on the sidewalk, making it appear as though a barber had performed the work.

Price, \$1.50. Weight, 3½ lbs. Add postage.

Grasnip



NO. 1 GRASNIP—A practical all-around shear, for grass, vines, light shrubbery, etc., 6-inch cutlery steel blades; malleable red enameled hand grip. 12 inches over all. Price, \$1.20. Weight, 2 lbs. Add postage.

NO. 2 GRASNIP—Green enameled hand grip, semi-finish blades. Price, 95c. Weight, 2 lbs. Add postage.

Labels



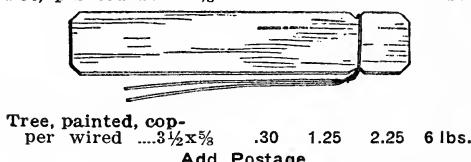
Size	100	500	1000	Per 1000
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Pot, painted	4x 5/8	\$0.25	\$1.00	\$1.75
Pot, painted	5x 5/8	.30	1.25	2.25
Pot, painted	6x 5/8	.35	1.50	2.75

5 lbs.

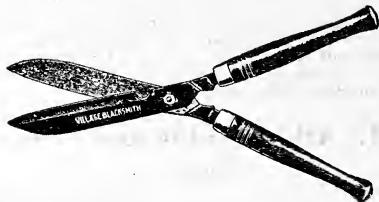
6 lbs.

8 lbs.



Tree, painted, copper wired ... 3½ x 5/8 .30 1.25 2.25 6 lbs.
Add Postage

Hedge Shears



NO. 800—Forged mill finished tool, steel tempered, 8-inch blades, 10-inch handle. Clear selected stock handles, riveted through heavy enameled ferrules, insuring absolute security. Best material and workmanship. A superior tool. Blade notched. Price, \$2.50; weight, 3 lbs.; add postage.

NO. 880—Serrated, 8-inch blade, 9-inch handle. A lighter, quicker cutting shear made for new growth hedge, topping shrubs and grass. Cutlery steel blades riveted to green enameled malleable tangs. Price, \$2.50. Weight, 2 lbs. Add postage.

Grass Shears



NO. V52—With Trowel shank. Cutlery steel. 6-inch blade. Green enameled spring with full polished handles and cutting edges. Price, 85c; weight, 1 lb.; add postage.

NO. V2—Green enameled handle and spring. Full polished edges. With straight shank. Price, 70c; weight, 1 lb.; add postage.

Grass Hook



Patented offset. Swings perfectly in the hand with little muscular effort. Forged cutlery steel. Tempered, ground sharp and whetted. Oil finished maple handle.

Price, 65c; weight, 2 lbs.; add postage.

Asparagus Knife



Has long shank and blade for cutting the tips below the surface. Length over all, 15 inches. Octagon tool steel tempered.

Price, 50c; postpaid, 55c.

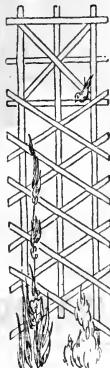
Celery Tape

Put up in spools of 1,000 yards. Color, red and green.

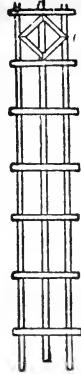
Price, \$4.50. Weight, 3¾ lbs. Add postage.

Trellis -- Arbors -- Flower Boxes

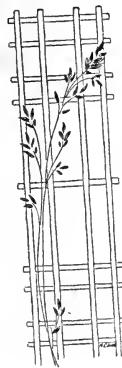
The garden furniture here described is made from the most suitable material. Light and durable, on account of quality of material and thorough workmanship. Not mailable.



3



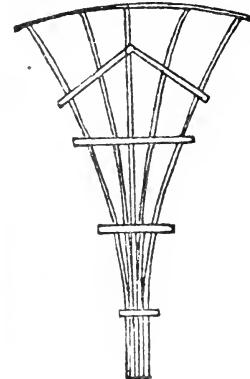
11



12



13

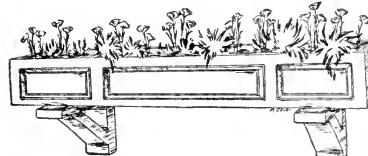


66

	Height Inches	Width Inches	Size of Material	Price
No. 3.....	84	24	1 1/4 x 1/4	\$1.70
No. 11.....	96	22	1 5/8 x 3/4	1.25
No. 12.....	96	28	1 5/8 x 3/4	2.60
No. 13.....	96	28	1 5/8 x 3/4	3.50
No. 66.....	72	36	1 5/8 x 3/4	1.25
No. 68.....	96	60	1 5/8 x 3/4	1.50

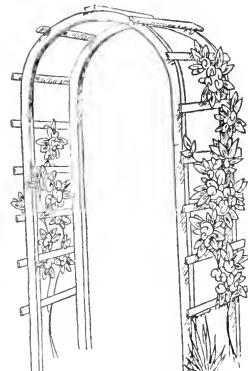


23



404

No. 68 is same style as No. 66 but higher and wider.



21

	Height Inches	Width Inches	Size of Material	Price
No. 23.....	90	84	.....	17.50
No. 404.....	7 1/2	9	1 x 1	3.75
No. 21.....	84	42	.....	14.00

No. 21 is 26 inches deep and lumber is 3x2 and 2x1.

No. 23 is 26 inches deep and material is 4x2, 2x2 and 1 1/4 x 1/4.

Nos. 21 and 23 are shipped in sections complete ready to assemble.

Our quotation on 404 flower box is a 4-foot box, but we can supply these in 5, 6 and 7 foot at higher prices.

Tin Tops

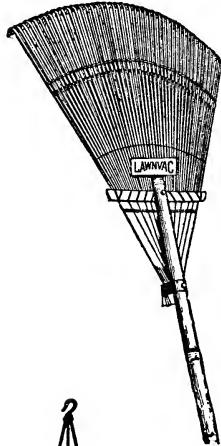
Packed 500 in crate. 3-lb. size, \$15.00 per M; 5-lb. size, \$16.00 per M. Prices subject to change.

Berry Hallocks

Strawberry self-folding hallocks are tied in bundles of 250, and are known as deep, full-sized pints. Weight, 16 lbs.

Raspberry hallocks are also self folding and tied 250 in bundle, full pints but are known as the shallow type. We do not break bundles of either hallocks. Weight, 16 lbs.

Price of both, \$1.50 per bundle, or \$5.50 per M, and subject to change. Add postage.

**Lawn Leaf Rake**

Light and durable. "As efficient as a vacuum cleaner for the lawn." Eighteen-inch spread. Forty-four teeth made of specially selected split bamboo, spaced a quarter of an inch apart. Teeth are especially processed so as to retain their shape.

Made of good materials—reinforced in five places—iron strap and two brass bolts at handle connections. Bamboo wire and reed spreaders, to add strength and maintain rigidity of teeth position. Measures five feet long and weighs only sixteen ounces.

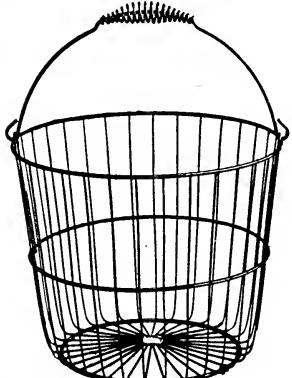
Price, each, 40c.

Mailing weight, 2 lbs.

BASKETS

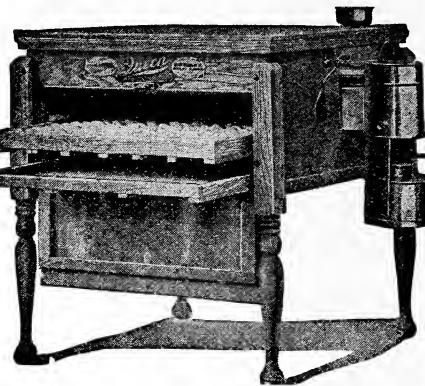
Please note the construction of the basket here shown and you will readily see that the different wires are electrically welded together, thus forming a solid construction, making all parts equally durable, and thus making it impossible for it to fall apart.

10-inch, 20c; $\frac{1}{2}$ doz., \$1.15; doz., \$2.00; wt. 5 lbs.
12-inch, 25c; $\frac{1}{2}$ doz., \$1.50; doz., \$2.75; wt. 7 lbs.
14-inch, 40c; $\frac{1}{2}$ doz., \$2.00; doz., \$3.75; wt. 10 lbs.
16-inch, 60c; $\frac{1}{2}$ doz., \$3.25; doz., \$6.00; wt. 14 lbs.



Half bushel Picking Basket, with bail. No. 6 gauge hoops, No. 11 gauge body wires, mesh $\frac{7}{8}$ -inch at bottom and $1\frac{3}{16}$ inch at top, galvanized finish. All joints electrically welded. Will not rust.

Price, \$1.25. Wt. 10 lbs. Add post. age.

Poultry Department

33 1/3% OFF on INCUBATORS

Queen Incubators

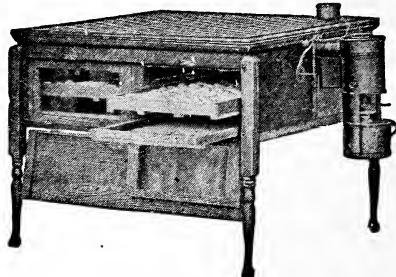
Provides uniform heat over egg chamber that is most natural for the hatching eggs.

The Queen is doubly insulated. First, double Walls of California redwood is used, thus forming a dead air space. Second, corrugated straw-board is used between the wooden walls.

Boiler and radiator of the Queen heating system is made of copper (not copperized tin), and placed close to the inner top of the incubator.

Factory Prices

	Factory Prices	Our Prices
No. 1—85-egg size, \$	30.50	20.33
No. 3—180-egg size, 48.25		32.17
No. 4—275-egg size, 62.50		41.67
No. 5—400-egg size, 73.75		49.17
No. 25—600-egg size, 116.00		77.33

Style K Incubator**Factory Prices Spokane Prices**

No. 20—70-egg size, \$18.00.....	\$12.00
No. 21—130-egg size, 30.75.....	20.25

Style K Incubators are constructed of double wall redwood. The top of the machine is relined with insulation. The heater and pipes are made of aluminoid. The machine is equipped with the same expansion cup and thermometer as the regular Queen.

Coal Burning Brooder Stoves

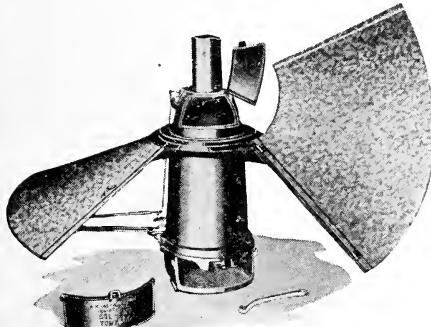


MARVEL

The highest type of constructive excellence is maintained in MARVEL Brooders. The grates and fire chamber are designed to produce the greatest heating power from a given quantity of coal. On the slightest temperature variation of the Synchronized draft and check guarantees automatic thermostatic regulation.

No. 2—52-inch canopy. Price, \$15.00.

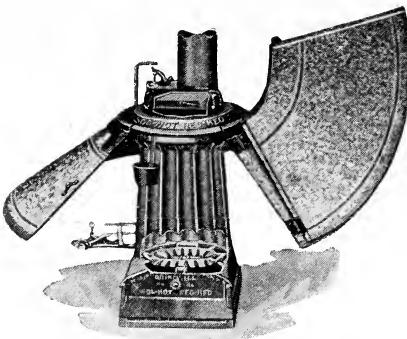
Torpedo



Here is another famous Sol-Hot brooder. The "Torpedo" coal burning brooder. Note the hinged door canopy—giving easy accessibility to all parts of stove. Canopy can also be instantly raised and lowered on patented support, and rotates, thus placing door in any desired position. The "Torpedo" ball bearing shaker grates mean clean burning fuel and even temperature maintenance. "Torpedo" features include large capacity fire pot, patented improved draft intake, special cold air check damper, large ample size fuel door, (placed above hearer for accessibility), double safety wafer yoke, (with safety expansion device which prevents wafer breakage.)

Canopy	Coal Capacity	Grate	Ship.	Wt.	Price
56 in.	54 lbs.	11½ in.	130 lbs.	\$27.25	
66 in.	60 lbs.	12¾ in.	150 lbs.	29.25	

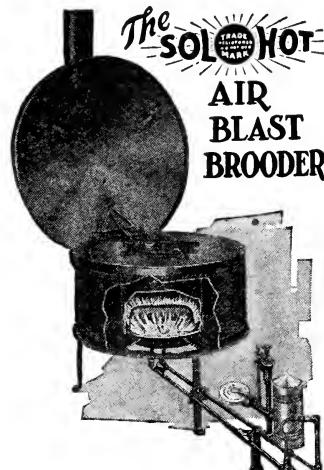
Red-Hed



The RED-HED with its patented full section Hinged Door makes it easier to fuel at the top—easier to handle and operate. Its patented canopy can be instantly removed without taking down stove pipe—it rotates around stove at any height, making it easy to get at any part of stove or chicks. Canopy can be instantly raised or lowered without ropes, pulleys or stove pipe attachments. The new RED-HED is the "last word" in convenient, dependable brooder stoves.

48-inch canopy	\$28.00
58-inch canopy	34.00
68-inch canopy	38.00

Air Blast Brooder



The AIR BLAST will keep your brooder house warm in any weather. By partitioning your brooder house with wire netting, you can have chicks of all ages in your brooder house at one time. So perfect is the Automatic Thermostat Control that it can be turned down so that the flame is no larger than you would burn in a house lamp, or it can be turned up to produce sufficient heat to keep the brooder house comfortable in zero weather.

Flame confined in steel screen. Hinged canopy top. Automatic thermostat control. Ten-gallon oil container.

Dimensions—Length of hinged canopy, 32 inches. Body, 24½x12 inches. Height from

center of canopy to floor, 27 inches. Shipping weight, 100 lbs. Stove pipe not furnished. Order elbow and 4-inch stove pipe if wanted.

Price—Brooder, \$35.85. Elbow, 50c. Stove Pipe, 30c. Extra 5-foot lengths of copper tubing to go between oil container and float valves with couplings, 75c each.

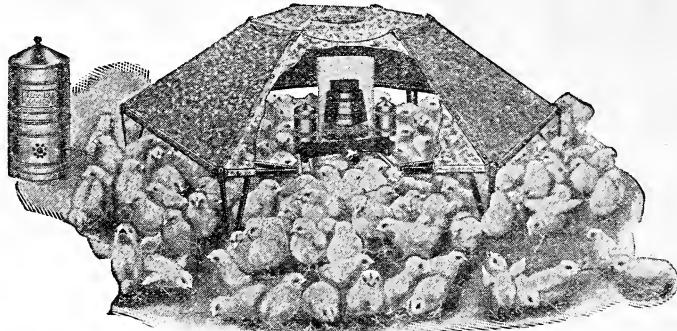
Pipes—Elbows

No pipes or elbows furnished with stoves. Order as many lengths of pipe as you need, also elbow if needed, and add to price of stove. When ordering pipe, caps, elbows or roof

plates, be careful and specify exact size wanted. Our 3 to 4 inch pipe is 3 inches at one end and 4 at the other. This rule applies to other sizes of pipes.

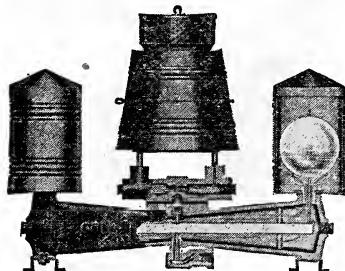
3-inch pipe, 25c.	3-inch elbow, 50c.
3 to 4-inch pipe, 30c.	4-inch elbow, 50c.
4-inch pipe, 30c.	5-inch elbow, 60c.
4 to 5-inch pipe, 30c.	6-inch elbow, 70c.
5-inch pipe, 30c.	3-inch cap, 50c.
5 to 6-inch pipe, 30c.	4-inch cap, 50c.
3-inch roof plates, 60c.	5-inch cap, 60c.
4-inch roof plates, 75c.	6-inch cap, 70c.
5-inch roof plates, 90c.	

Oil Burning Brooder Stoves



New Sol-Hot Brooder

The new improved Sol-Hot embodies the fundamental principles that are absolutely necessary in a heater for the successful hatching and rearing of chicks. It is the one heater on the market that is absolutely automatic. Once the burner is lighted it cannot go out as long as there is oil in the oil supply tank.



AUTOMATIC TWIN-FLOAT OIL LEVEL

You never have to give the question of oil level a moment's thought. You set the Sol-Hot anywhere, level, tilted or on an angle—it makes no difference; the twin-float oil level automatically levels the oil in the burner well and keeps it at the proper level all the time.

DOUBLE-FEED WICKLESS BLUE FLAME BURNER

This wonderful burner converts common kerosene into gas, producing the most intense, steady, uniform, blue flame without smoke, soot, or fumes. It has no wick to trim or carbonize—it won't burn uneven—it won't overflow—it won't flare up on one side—it won't go out as long as the oil supply lasts.

OIL CONTAINER CAN BE PLACED ANYWHERE

If you operate more than one brooder you can attach them all to one oil container.

A small copper tube is used to connect oil container to the burner and as the Twin-Float Oil Level takes care of keeping the oil level at the burner you can put your oil container where it will be most convenient for you.

Capacity 2 gallons.

SOL-HOTS, COMPLETE

Canopy	Price	Weight
24-inch	\$11.75	29 lbs.
34-inch	17.25	38 lbs.
44-inch	21.00	44 lbs.
54-inch	23.50	51 lbs.

GIANT SOL HOT

54-inch	\$25.50	55 lbs.
64-inch	28.00	63 lbs.

HEATERS

24-inch	\$ 8.25	17 lbs.
34-inch	11.50	18 lbs.
44-inch	15.00	19 lbs.
54-inch	16.25	20 lbs.

GIANT HEATERS

54-inch	\$16.50	24 lbs.
64-inch	16.50	24 lbs.

CANOPIES

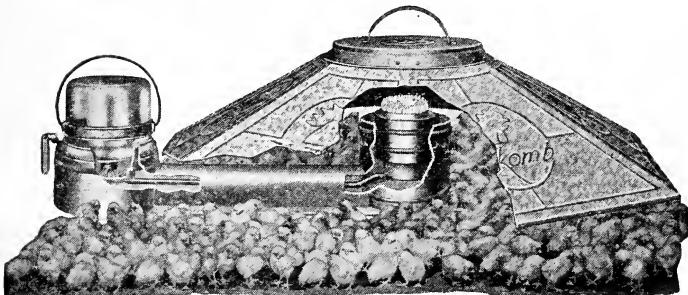
24-inch	\$ 6.50	12 lbs.
34-inch	8.75	20 lbs.
44-inch	10.75	25 lbs.
54-inch	13.25	31 lbs.

GIANT CANOPIES

54-inch	\$13.25	31 lbs.
64-inch	15.50	39 lbs.

Add postage. 54 and 64-inch will not go by mail.

Simplicity Oil Brooder



\$9.95 \$11.40 \$12.95

Stands alone in construction, appearance and ease in operation. In the field of burners un-equipped with thermostatic control, it stands so high that all others are judged by it. In the simplicity the flame is automatically maintained where desired without the aid of unreliable valves or sliding joints. The control is simple and cannot wear out. The oil pipe line with a clean-out plug at its end, is securely brazed from one end to the other. Burners are specially designed for brooders. A wire weave lighting ring gives a flame immediately.

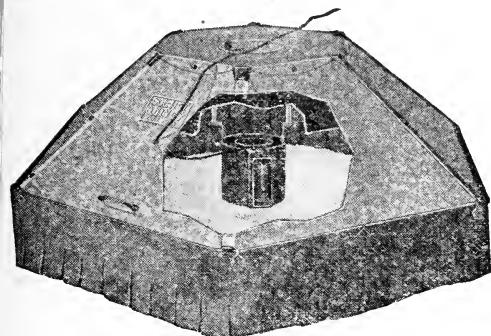
The 52-inch canopy is equipped with a 5-inch giant burner, a guarantee against weather troubles.

In illustration canopy is cut to show construction and improved pipe line.

Canopy	Price	Weight
32-inch	\$ 9.95	34 lbs.
42-inch	11.40	38 lbs.
52-inch	12.95	51 lbs.

Add postage. 52-inch not mailable.

Electric Brooders



Sol-Hot Electric Brooders

It is a recognized fact that the thermostat is "the heart of any brooder"—oil, coal or electric. Your brooder is no better and no worse than the thermostat.

The Sol-Hot Electric Brooder Thermostat has the thermometer and temperature control mounted together. The control is magnetic, and gives instantaneous make and break of circuit. The contact is wiping in its action. The contact points are platinum.

The Heating Element is circular and enclosed in a steel case—no chance of shorting.

The air in the double drum ascends and draws in cool air from below, thus resulting in continuous circulation of air under the canopy. This is the same principle of heating as in the

well known circulating type of room heater.

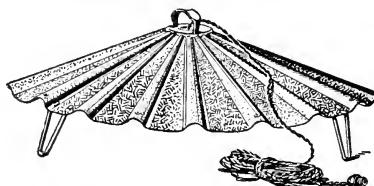
Current is used only when needed. The consumption ranges from 250 watts on the 34 in. up to 500 watts consumption on the 64 in. canopy when turned on. This means quick recovery from heat losses under the brooder.

The top of the canopy has a double wall with an air space between for insulation. Double curtain attaches to edge of canopy. Most durable and sturdy construction of any electric brooder made. 10 feet of extension cord and plug.

No.	Canopy	Price	Weight
1	34 in.	\$17.25	39 lbs.
2	44 in.	21.00	46 lbs.
3	54 in.	23.00	53 lbs.

Add postage. 54-inch size not mailable.

Electric Brooders



Trouble-proof, practical and yet inexpensive electric brooder. Furnished with 50 watt protected heating unit. Canopy 24 in. in diameter made from heavy galvanized iron supported by strong steel legs. Handle on top permits carrying. Complete with 10 ft. of cord. Capacity 50 to 75 chicks.

Each, \$3.25. Weight, 5 lbs. Add postage.

Day Old Chicks



Day Old Chicks—Prepaid

Full Count and 100% Live Chicks Guaranteed

Chicks will be shipped direct from the hatchery thus avoiding delay in transit. If you want these expressed to a station where there is not an agent it will be necessary for you to send

additional to cover express charges. Send order and your remittance direct to us, giving date when you want them shipped. Will immediately forward order and have it booked for shipment at the time specified. It is advisable to place your order ahead, as by doing so there is much less likelihood of being disappointed. Please note that the quotations made on chicks are prepaid, the right reserved to send either by express or parcel post. Full count and 100% live chicks guaranteed. If you find any dead, weak or in any way defective, have postmaster or express agent sign statement to that effect and mail at once to us.

Chicks forwarded by stage or to prepay stations are sent at owner's risk.

Reduced Prices for April, May and June

BABY CHICKS—You can compute our late season price from those quoted under each breed and variety as follows:

APRIL 27—Discount all chicks 1½c per chick, except in 1000 lots, 1c per chick.

MAY 4—Further discount White Leghorns 2c per chick. Total discount 3½c. All other breeds and varieties 1c per chick. Total discount 2½c. **ON AND AFTER THIS DATE ALL QUANTITY PRICES AT 100 CHICK RATE.**

MAY 18—Further discount all chicks 1c per chick. Total discount White Leghorns 4½c; all others 3½c. On and after May 18 total discount on assorted chicks 3c.

Add 1c in 50 chick lots—2c in 25 chick lots:

Regular April 27 May 4 May 18

White Leghorns	\$16.50	\$15.00	\$13.00	\$12.00
R. I. Reds.....	18.50	17.00	16.00	15.00
Barred Rocks	18.50	17.00	16.00	15.00
White Rocks	21.00	19.50	18.50	17.50
Black Minorcas	21.00	19.50	18.50	17.50
White Minorcas	21.00	19.50	18.50	17.50
Buff Orpingtons	21.00	19.50	18.50	17.50
White Wyandottes ..	25.00	23.50	20.00	18.00
Light Brahmas	25.00	23.50	22.50	21.50
Jersey Giants	23.00	21.50	20.50	18.00
Buff Leghorns	18.00	16.50	15.50	14.50
Brown Leghorns	18.00	16.50	15.50	14.50
Anconas	18.00	16.50	15.50	14.50
Ex. Heavy Assorted	18.00	16.50	15.50	15.00
Heavy Assorted	16.00	14.50	13.50	13.00
Assorted	13.00	11.50	10.50	10.00

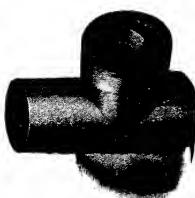
"Tycos" Incubator Hygrometer

"Tycos" Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each, \$2.00; postpaid, \$2.10. Hygrometer wicks, each 25c.

We pack thermometers and all glassware in as safe a manner as possible, but will not be responsible for their safe delivery, owing to the great risk of breakage.

Egg Tester

It is designed for use on an ordinary hand lamp. In a dark room the light will be strong enough to penetrate the shell and illuminate the interior of the egg. Price, 45c; weight, ¾ lbs.; add postage.



Hardware Cloth

Stop Coccidiosis! Experiment stations and thousands of poultrymen have absolutely controlled this dreaded disease by using hardware cloth in their brooder rooms. Put this wire on frames. The mesh is 3x3 (3 to the inch) which allows all droppings to pass thru. 36 inches wide. Price, 8c square foot or 24c running foot.

Lamps



No. 8 brooder lamp. The Inland Safety Brooder lamp requires no chimney; never smokes, burns a steady flame. The air fingers carry fresh air direct to the flame. This gives perfect combustion and more heat for a given amount of oil than with any other burner. Top of lamp is made to hold water, and it is essential to keep water there owing to heat being reflected back upon the lamp. Weight, 2 lbs. Height of bowl, 4½ inches; diameter, 7¼ inches.

Price, complete with burner and wick, \$2.00; postpaid, \$2.10.

No.	Burner	Height Inches	Diam. Bowl Inches	Price
2	2	2½	7	\$1.75
3	3	3¼	8¼	2.00
4	32	3¼	8¼	2.00

Lamp Bowls

For 3 Burner.....	\$1.25
For 2 Burner.....	1.25

Add 10c for postage on lamps and lamp bowls. If chimney wanted for any of the above, add 50c.

Lamp Burners

No. 2 Sunburner.	Price, 60c; postpaid, 65c.
No. 3 Sunburner.	Price, 75c; postpaid, 80c.
No. 1 Zenith, no chimney, ¾ inch wick.	Price, 60c; postpaid, 65c.
No. 2 Zenith, no chimney, 1 inch wick.	Price, 75c; postpaid, 80c.
No. 32, 3¼ inch chimney, 1-inch wick.	Price, 60c; postpaid, 65c.

Lamp Chimneys

Chimney, $2\frac{1}{4} \times 5$ inches, for No. 2 burners.
Price, 50c; postpaid, 65c.
Chimney, $3\frac{1}{4} \times 6$ inches, for No. 3 burners.
Price, 50c; postpaid, 65c.
Chimney, $3\frac{1}{4} \times 3\frac{1}{4}$ inches, for No. 32 burner.
Price, 50c; postpaid, 65c.

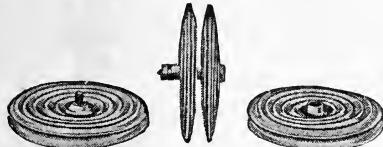
Lamp Collars

For No. 2 burners, 10c each.
For No. 3 burners, 15c each.

Lamp Wicks

No. 1, 2, 3, 5c each; 50c dozen.

Wafer Thermostats



Wafer Thermostats are made of two round concave discs, sealed together at the outer edge. The cavity between them is filled with a volatile liquid which is sensitive to changes in temperature.

3, 4 and 5 inch sizes with thread connection on lower side and beveled place on upper side, also same with solid point on lower side. All thermostats double brass.

Postpaid

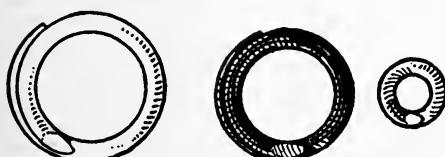
3 inch	.....	.50	.60
4 inch	.....	.75	.85
5 inch	.....	1.00	1.10

LEG BANDS



Champion

This band is made in one piece, is adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of aluminum. Postpaid, 12, 15c; 25, 25c; 50, 40c; 100, 75c.



Spiral

Made like a key ring, easy to put on. Birds identified easily on account of the different colors. Carried in white, green, black and pink for the following breeds: Asiatics—Brahma, Orpington and Langshans. Americans—Plymouth Rocks, R. I. Reds and Wyandottes. Mediterraneans—Leghorns, Minorcas and Anconas. Price: 12, 10c; 50, 30c; 100, 50c.
Pigeons. Price: 12, 10c; 50, 30c; 100, 50c.

Bandettes



Bandettes are strongly made, will not become uncoiled and having a smooth, plain surface, do not get clogged with dirt to obscure the colors and numbers. The colors are not affected by weather, are always bright and distinctive. The bands spring back to their original size after being opened out to put on bird's legs.

Two sizes. No. 9 Leghorns. No. 11 Rocks, etc. Colors: Red, Yellow and Green. Price, doz., 40c; 25, 65c; 50, \$1.15; 100, \$2.00.

Reliable

In colors with printed numbers. Made of aluminum with colored numbered inserts. Adjustable. Supplied in colors: Red, Yellow and Green and with numbers from 1 to 100 in all the colors.

Price Doz., 40c; 25, 75c; 50, \$1.25; 100, \$2.25.

Petty's Poultry Punch

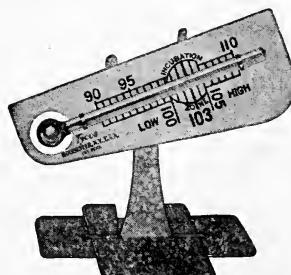


Latest, most convenient Poultry Punch; will not clog. Thoroughly practical. Postpaid, 25c.

NOTICE

Thermometers and all glassware are carefully packed, but safe delivery not guaranteed and we will not be responsible for breakage. To insure safety send insurance fee with your remittance.

Incubator Thermometers



When used with Stand

5776 — TYCOS INCUBATION-ZONE — 4-inch white-enamelled metal scale with black figures and graduations; plain glass tube filled with distilled mercury; circle between the 100° and 105° points on the scale makes it easy to note

whether the incubation temperature of 103° is being held. Price, \$1.00; postpaid, \$1.10.



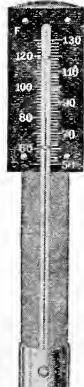
When used without Stand

5783—**TYCOS CERTIFIED**—Angle-pattern 4-inch black oxidized metal scale with white-filled figures and graduations; plain glass tube filled with distilled mercury; every fifth line and figures stamped on the scale and every single degree line engraved on the glass thermometer tube. Price, \$1.25; postpaid, \$1.35.

Brooder Thermometers



5436S



5792

5436S—A thermometer that will meet the demand for an inexpensive instrument, and yet not sacrifice too much in the way of accuracy or finish. Black finished brass scale, with white filled figures. Range 20° to 60° F. below to about 120° F. above. Metal case, magnifying lens tube, non-fading red permacolor filled. Price 75¢; postpaid, 85¢.

No. 5792—Is what is known as mounted brooder thermometer and is designed for inserting through a hole in the top of the brooder, the bulb being in the actual brooder temperature, and the scale outside for easy reading. Black lithographed metal scale, mercury filled tube, mounted on flat side of half-round wood frame. Length over all, 7 inches. Bulb protected by a tin guard. Ordinary grade. Price, 80¢; postpaid, 90¢.

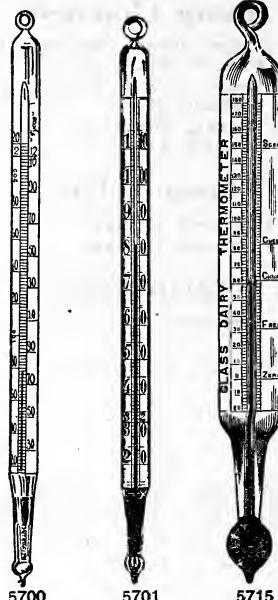
Dairy Thermometers

Glass Floating

5700—Churn Thermometer. Glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to 110° F. in 1° graduations. American made; guaranteed accurate within one division of the scale. Best grade and workmanship. Price, \$1.75; postpaid, \$1.85.

5701—Pasteurizing Thermometer, glass cylinder hand written paper scale, 2° graduation, accurate within one division of the scale, mercury tube. Approximate scale range, 30° to 220° F., 10 inches. Weighted to float upright. American made. Best grade and workmanship. Price, \$1.75; postpaid, \$1.85.

5702—Churn Thermometer, glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to



5700

5701

5715

110° F. in 1° graduations. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

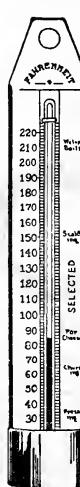
5703—Pasteurizing Thermometer, glass cylinder hand written paper scale; 2° graduation, accurate within one division of the scale; mercury tube; approximate scale range 30° to 220° F.; 10 inches; weighted to float upright. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

Please note that the description of 5700 and 5702 is exactly alike. This is also true regarding 5701 and 5703. Then note the difference in price and that the one is imported and the other is American made.

5715—All glass floating Churn and Pasteurizing Thermometer. Approximate scale range, 0° to 150°. Length, 8 in. Mercury filled tube. Best imported. Price, 40¢; postpaid, 50¢.



5705



5740S

Flanged Metal Scale

5705—Flanged, metal scale Churn and Pasteurizing. Ten-inch electro silver plated scale, gold plated strapped and screws, magnifying mercury filled tube, sliding guard; approximate scale range, zero to 220° F., 10 inches. Selected common grade. Price, \$2.00; postpaid, \$2.10.

No. 5740S—Selected Ordinary Grade. Brass scale with engraved figures and graduations sliding bulb guard; white back, permacolor filled tube; approximate temperature range 20° to 220° F.; length, 8 in. Price, \$1.00; postpaid \$1.10.



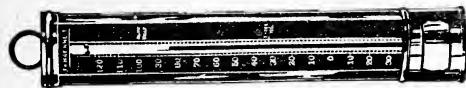
FEVER THERMOMETER—The normal temperature of the horse is 99 3/5 degrees, of cow is 99 to 102 degrees. Every owner of stock should have a Fever Thermometer. These Thermometers are tested and registered. Price, \$2.00; postpaid, \$2.10.

Greenhouse Thermometers



5400S

No. 5400S—Best grade, 10 inches, black jappanned, heavy tin case. Spirit. Tube filled with red permacolor (non-fading and easy reading) black oxidized brass scale with white filled figures and graduations. Price, \$2.00; postpaid, \$2.10.



5420S

No. 5420S—Selected grade, 10 inches, black jappanned tin case. Spirit. Same as 5400S, but selected grade instead of best grade. Price, \$1.50; postpaid, \$1.60.

Soil (Hot Bed) Thermometers



No. 5981—It has a strong, pointed, metal end-piece; the glass tube and V-shape metal scales are sunk in the wood back; length, including shaped handle, is 15 inches. Price, \$2.75; postpaid, \$2.85.

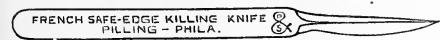
Thermometers and all glassware are packed in the most careful manner, but owing to the great liability of breakage we will not be responsible in case of breakage. To avoid loss the best plan is to have them insured, and if you so desire, include insurance with your remittance.

Hydrometer



P7244—Salt Scale Salometer. Range 0 to 100. Graduation 1-60% F. Length 11 inches. Price, \$1.50; postpaid, \$1.60.

Safe Edge Killing Knife



Exactly same as French Killer except cut on one side only. Price, 60c; postpaid, 65c.

Pilling Angular Killing Knife



By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Price, 60c; postpaid, 65c.

Lansdowne Capon Sets



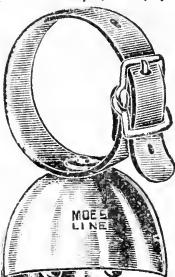
Lansdowne Automatic Testicle Remover is, as its name implies, automatic—quick, easy to use and just the remover for the beginner. Does not have a lot of unnecessary springs which are liable to get out of order. The grasping loops are exactly same principle as the Miles Remover, which has been in use for fifty years; but our patent feature has made it perfect as to simplicity of the operation and to prevent making slips.

Price, \$4.50. Postpaid, \$4.60.

New Philadelphia Capon Set



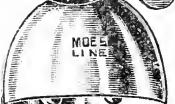
This set has many admirers. It consists of a knife for making the incision; the spreader for holding sides open; sharp hook for piercing skin; the Lansdowne Remover for removing the testicles. Cords with hooks for holding the bird. Cup forceps for removing any foreign matter. They are fine instruments of the best workmanship. Price, \$3.00; postpaid, \$3.10.



Turkey Bells

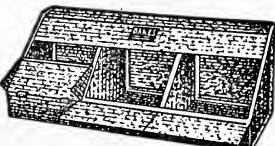
Each, 40c.

Nest Eggs



Porcelain—Price, 5c each; 1/2 doz., 20c; doz., 35c; mailing weight, 2 lbs. per dozen; add postage.

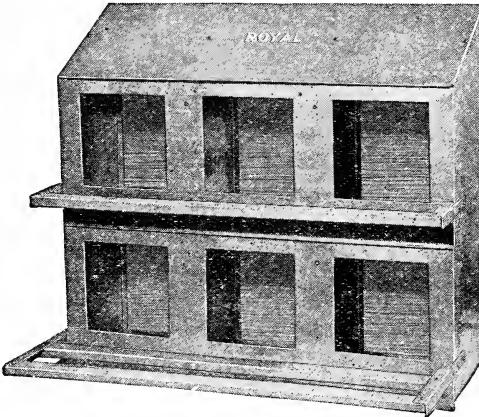
Sanitary Hens' Nests



These galvanized steel nests are made in three compartment size only. Lid lets down to form a perch. Sloping top prevents roosting on nest. Nests set on brackets or hang on wall.

Convenient, sanitary and vermin-proof. Each compartment is 11 inches wide, 13 inches from front to back, and 12 inches high at the rear.

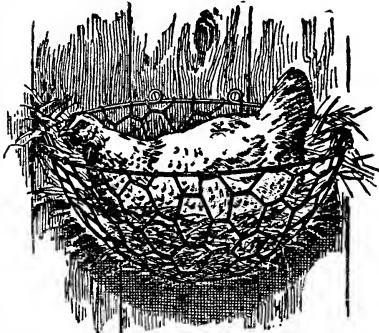
Price, \$3.75; weight 30 lbs. Add postage.



Nests are made from 26 gauge galvanized iron throughout and furnished complete, single above and double folding perches below as illustrated. Made without backs to insure easy cleaning. Size of each compartment approximately 12x12 inches. Cut shows 6 nests but our quotation is for 10 nests. Weight, 65 lbs.

Each, \$12.00.

Hens Nests



These nests are strongly made from heavy japanned steel wire. They are intended to be fastened to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes.

Size, 14 inches in diameter, 1 1/4-inch mesh. Each, 15c; doz., \$1.75. Weight 3/4 lb. each. Add postage.

Hatching Egg Boxes

These boxes are specially designed to withstand the rough usage and to afford complete protection to the eggs. Compare the weight of these boxes with others that are quoted at a lower figure, and you will be enabled to judge of their respective qualities.

Each $\frac{1}{2}$ Doz. Doz. Wt. Doz.

15 eggs	\$0.35	\$1.75	\$3.00	20 lbs.
30 eggs .....	.50	3.00	5.25	30 lbs.
50 eggs .....	.65	3.75	7.00	40 lbs.

Add postage.

EGG BOXES



Paper—Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box.

Doz., 25c, postpaid; at purchaser's expense, package of 125, \$1.25; 250, \$2.40; 500, \$4.50; 1,000, \$8.50. Weight of 125, 15 lbs. Add postage.

Egg Cases

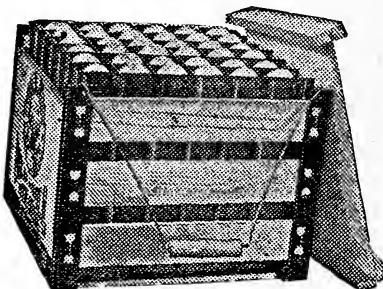
Each, knockdown, 35c; $\frac{1}{2}$ doz., \$1.75; doz., \$3.00. Weight, each 7 lbs. Add postage.

Egg Case with fillers. Each, 70c. Weight, 12 lbs.; add postage.

Egg Case Fillers

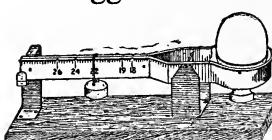
Pasteboard fillers for 30-dozen case, 35c. Weight, 6 lbs. Add postage. Pasteboard fillers, per case (for 12 30-dozen cases), \$3.00. Weight of case, 55 lbs. Add postage.

Egg Cases



Frame is made of the best quality of sheet steel. Wood is fastened to steel by a patented indestructible carrier. Cover rests on steel process, making a light, rigid and practical frame and can not be pressed down on contents of crate. Handles are made of steel spring wire and are fastened securely to steel frame so that they cannot work loose or come off. Capacity, 12 dozen; weight, 7 lbs. Price, 85c; add postage.

Egg Scales



It makes no difference how you place the egg on the Champion Egg Scale because the egg cup is balanced on axis and is always held to "perfect center" by the balance weight under the cup. Simple in construction and easy to operate.

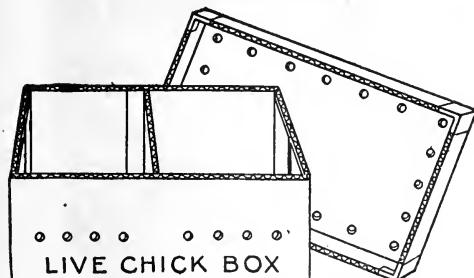
Grade Eggs in following grades: 19, 22, 24, 26 ounces to the dozen. Made of solid brass—will not get out of order—no loose parts to get lost.

Price, \$2.00 each; postpaid, \$2.10.

St. Helens Egg Grader

Grades quickly. All parts are securely fastened. Set eggs straight in egg holder—not leaning. One adjustment of sliding weight will grade standards and pullets and when weight is slid to other position the scale grades pullets and pewees. A very good scale for \$1.00. Mailing weight, 1 lb. Add postage.

Live Chick Boxes



LIVE CHICK BOX

These shipping boxes are well made of highest corrugated paper, which is very strong and durable. The construction of these boxes is such as to afford the greatest strength and sturdiness, without unnecessary bulk of weight.

Capacity	Size	Each	1/2 Doz.	Doz.	Wt. doz.
25	9x11x5 1/2	20c	\$1.00	\$1.75	14 lbs.
50	18x11x5 1/2	25c	1.25	2.25	18 lbs.
100	27x22x5 1/2	35c	2.00	3.50	32 lbs.

Add postage. Prices subject to change.

Shipping Coops

INLAND — All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

	Each	1/2 doz.	Doz.	Weight
No.	1—10x20x20	\$0.50	\$2.75	\$5.00
No. 2—12x24x20	.65	3.25	6.00	10 lbs.
No. 3—20x24x20	.80	4.00	7.50	13 lbs.

Add postage.

“United” Steel Feeding Battery

An eight-compartment, all steel battery good for 400 to 450 lbs., or 80 hens. Size 27x54x7 1/2 inches high. All four sections 15 inches high. Equipped with 4 1/2-inch seamless galvanized troughs. Doors slide up, which is a most convenient feature. Two heavy galvanized trays underneath each section for droppings to collect in. Heavy angle iron truck equipped with 6 1/4-inch truck wheel and 3-inch casters.

All wire joints in battery are electrically welded, making no crevices for mites or lice to collect in. Shipped knocked down. Weight 264 lbs.

Where large quantities of poultry are handled, the 16-compartment battery is the best size. It has a capacity of about 112 grown birds. Height 7 1/2 inches, length 62 1/2 inches, width 37 inches. Weight, complete with troughs, 392 pounds.

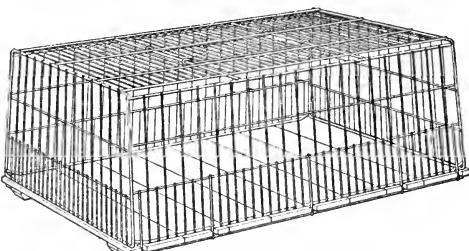
Send for descriptive circular and price.

Egg-O’Latum

Egg-o’latum is a white cerate. Rubbed over the shell of the egg it seals every pore so no air, moisture, odors, or germs can get in. Preserves the egg in all its original freshness. The application of Egg-o’latum is easily and quickly done. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertilized ones are best. One package treats 50 doz. eggs.

Price, 50c and \$1.00. Postpaid, 55c and \$1.10.

Clover Leaf Steel Shipping Coop



This steel coop will outlast three wood crates and will save its cost each season in repairs and transportation charges.

It is made of galvanized steel bars and wire, and will not rust.

It has a narrow mesh on top, which eliminates the possibility of the poultry poking their heads through and being killed.

Self locking. Side door on top.

Weights but 24 pounds, and never gets heavier.

Size 27x41x14 inches high. Price \$4.75.

Size 27x41x20 inches high. Price \$5.75.

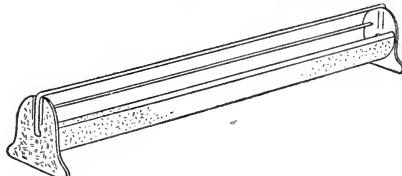
Automobile Coop

For conveying poultry to market this coop has no equal. It replaces the unsightly, unsanitary makeshift coop, and will last many years. It is light, easily attached to the automobile, and projects but an inch or two beyond the edge of the running board.

Price, \$4.50.

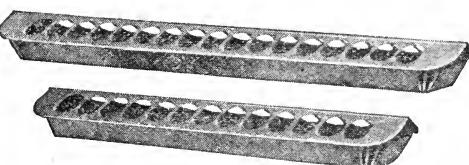
Chick Feeders

WITH ADJUSTABLE WIRE BAR



Made from 26-gauge galvanized iron and furnished with extra heavy rod which keeps chicks off top of trough and which adjusts down to side of trough for cleaning or filling without removing. Extra heavy ends and made with lip along side.

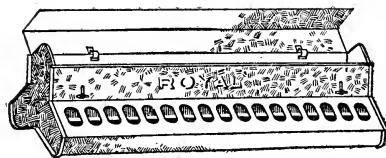
No. 140—24-inch, weight 1 1/2 lbs. Price, 30c. Add postage.



Made from extra heavy galvanized iron with slide top, bottom pan one piece and can be used for either feed or water. Edges on all holes turned and smooth. A strictly quality feeder,

No.	Length	No. Holes	Price	Weight
218.....	18 in.	26	35c	14 lbs.
224.....	24 in.	34	40c	18 lbs.

Add postage.



This feeder is made from 26-gauge galvanized iron in two lengths. Hinge top with new style hinge, adjustable sides, turned edges on feeding holes, which are placed high to prevent waste.

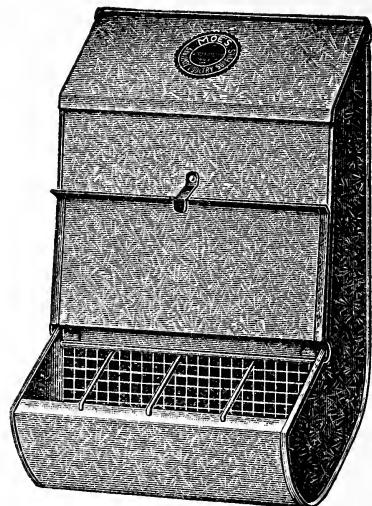
No.	Length	No. Holes	Wt.	Price
142.....	24 in.	34	6 lbs.	\$1.25
163.....	36 in.	54	9 lbs.	1.75

Add postage.

Mash Feeders

Large capacity hopper made from heavy galvanized iron of sufficient size to hold one hundred pounds of mash. Hopper is larger and wider at the bottom, provided with slide top which slides on heavy galvanized rolls. Stand is made from heavy galvanized angle iron and has wood perches.

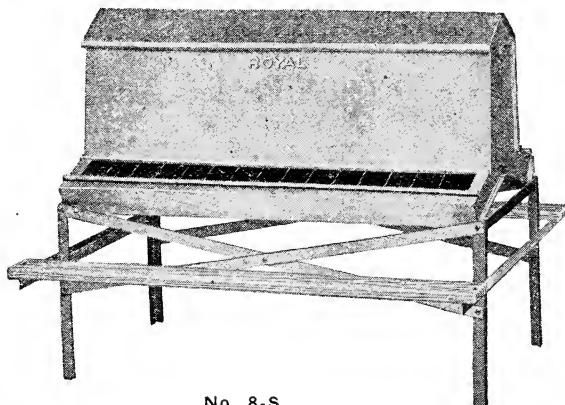
No. 8-S—Length, 36 in. Shipping weight, 55 lbs. Price, \$11.75.



Improved Wall Mash Hoppers made from heavy galvanized iron, all seams double seamed. Hopper is larger at bottom than at top, which prevents clogging.

No.	Width	Capacity	Weight	Each
81.....	12 in.	14 qts.	25 lbs.	\$2.00
83.....	24 in.	32 qts.	38 lbs.	2.75

Add postage.

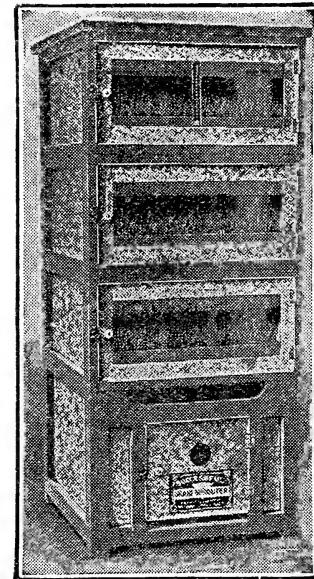


No. 8-S

Inland Grit and Shell Box

The Inland Sanitary Grit and Shell Boxes work a material saving in grit, shell, bone, charcoal or poultry feeds. They are thoroughly practical, self-feeding, made of heavy galvanized iron. They are provided with a cover or lid, which protects the contents, and being placed at an angle furnishes a slanting top, preventing the fowls from roosting on the top of the box. Length of 3 compartments 12 inches. Price, \$1.25; weight 4 lbs. Add postage.

4 compartments, 16½ inches in length. Price, \$1.40. Weight, 5 lbs. Add postage.



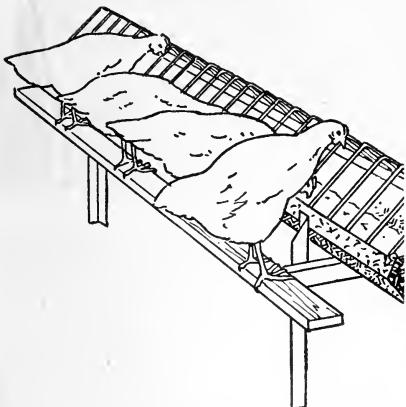
The Successful Sprouter is built in sections. The size of the base is 20 by 15 inches high. Each section contains two trays. Size of section is 20 inches square and 10¼ inches high. Each tray measures 17 inches square.

Has hinged top so you can sprinkle the grain from above in one operation. Capacity, from 40 to 50 quarts dry grain, and is recommended for flocks of from 400 to 600 hens. The sprouter here shown in cut has three sections or 6 trays.

Quote 5 sections, 10 trays. Price, \$25.00.

Quote 2 sections, 4 trays. Price, \$15.00.

Mash Feeders



Built to feed dry mash, wet mash and green feeds. Trough made from heavy galvanized iron, having hinged wire top which prevents hens from getting into trough and wasting feed. Trough easily removed from stand for filling or cleaning. Stand made from heavy galvanized channel iron with wood perches.

No.	Length	Weight	Price
36.....	36 in.	18 lbs.	\$4.00
60.....	60 in.	29 lbs.	5.25

Top Fill Fountains



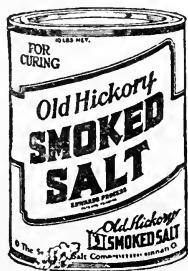
Made from heavy galvanized iron with double tank. Can either be set on floor or hung on wall. Covered outlet keeps dirt out of drinking water in pocket. Top filled.

No. 69—2 gallons. Weight, 7 lbs. Each, \$1.75. Add postage.

Better Meat

Cure your meat with Old Hickory Smoked Salt. This salt is pure dairy salt and is given the hickory flavor by burning hickory sawdust. This is what may be termed country cured. We can also furnish it with hickory flavor and sugar cured flavor combined.

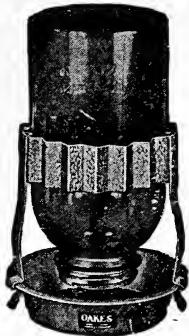
10-lb. package, \$1.00; add postage.



CHICK FOUNTAINS

Buttermilk Feeders

No. 70B—Examine carefully this splendid buttermilk feeder for use with half-gallon Mason jars. It comes with aluminum pan but without jar. The pan is held close to mouth of jar in up-ending, to prevent spilling. It is then adjusted to feed at desired depth. Price, 40c; postpaid, 45c.



Mason Jar Fountains



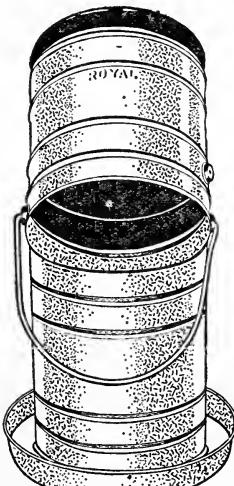
Made from extra heavy galvanized iron, blue enameled steel or Charcoal Tin. No solder used. Very substantial pan with heavy rolled edge; electric welded center. Glass jars not furnished.

No. 1 Enameling—Wt., 4 lbs. per dozen. Each, 10c. Add postage.



Made from heavy galvanized iron in two pieces. Top made with bail for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling. Special deep narrow pan for chicks.

No. 30—Capacity 1 gallon; weight, 3 lbs. Each, 70c; add postage.



These fountains are made from heavy galvanized iron. Fill from the top and water feeds automatically through a small hole without a valve into drinking pan all around fountain. Four heavy beads to strengthen both the outside and inside can, are placed on both the outer and inner parts of the fountain, so as not to interfere with the fountain telescoping together easily. Extra heavy bail permits carrying water in outer pail and pouring into fountain without removing it from brooder or poultry house. Bail fastens up out of way when not in use. Deep pan has heavy rolled edge.

Capacity	Weight	Price
5 gal.	14 lbs.	\$3.25
8 gal.	16 lbs.	3.75

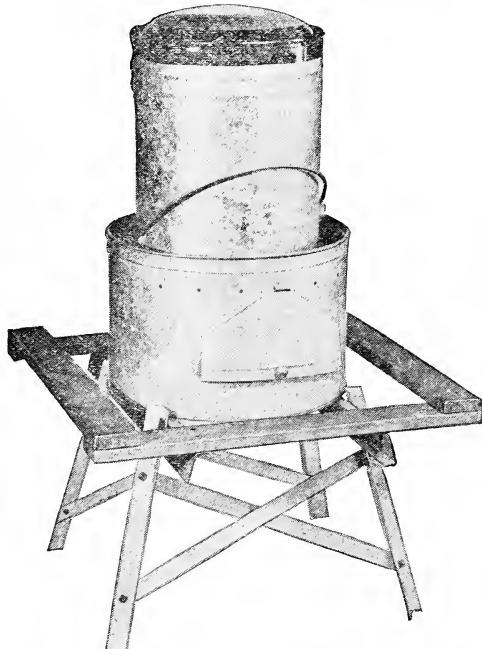
Thermic Fountains



This fountain is made from heavy galvanized iron with insulation that keeps the water warm in winter and cool in summer. The lower pan is also insulated to prevent the water that will be exposed to the air from freezing. It is very easily filled and cleaned, as the outer, which is the insulated tank, slips down over the inside tank into which the water is poured. The outer tank fastens to a metal projection with just a slight turn to the right, after it has been put in place. A very slight amount of water is out in the trough at any one time, and on account of the overhang of the insulated outer part of the fountain, much dirt or litter is prevented from getting into the trough. It is, however, recommended that the fountain be set up off the ground.

No. 10—5 gallons. Weight, 28 lbs. Each, \$5.25.
Add postage.

Fountain Heaters and Stands



This Heater and stand are both made of heavy galvanized iron except the perch, which is of wood.

The Heater exactly fits our No. 205 and 208 fountains with the entire bottom of the fountain setting inside the heater top, fitting very snugly.

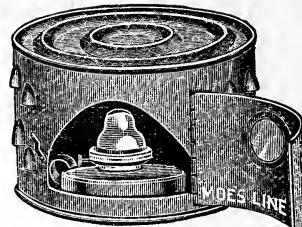
The Heater is of the open top type with a hinged door on side so that the lamp can be taken out for trimming of wick or refilling.

HEATER, STAND, FOUNTAIN COMPLETE

No.	Weight	Price
B.....	28 lbs.	\$6.85
C.....	30 lbs.	7.35

Add postage.

Fountain Heater



Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains and makes an ideal heater fountain at a low price.

Price, \$2.00. Weight, 5 lbs. Add postage.

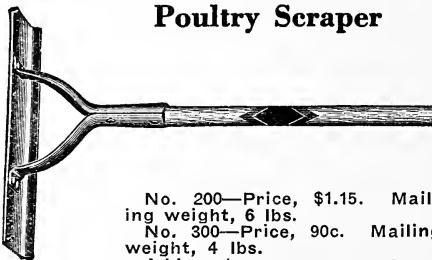
Electric Heater



Electric Heater made from heavy galvanized iron with solid rolled edge on bottom of pan, having 50 watt heating unit attached. Furnished complete with 10 ft. of cord and plug and can be used under any type fountain.

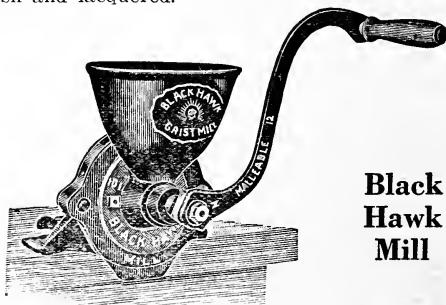
Each, \$1.90. Weight, 2 lbs. Add postage.

Poultry Scraper



No. 200—Price, \$1.15. Mailing weight, 6 lbs.
No. 300—Price, 90c. Mailing weight, 4 lbs.
Add postage.

An excellent tool for scraping dropping boards, brooder floors, etc. Has curved blade of high-carbon steel. No. 200 has blade 16 inches in length by $5\frac{1}{2}$ in depth and 4 $\frac{1}{2}$ -foot handle. No. 300 has blade 12 inches in length by $4\frac{1}{2}$ in depth and 4-foot handle. Handles are made of ash and lacquered.

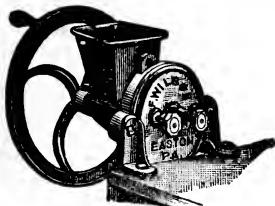


Black Hawk Mill

WITH A BLACK HAWK MILL in the house you crack the corn and grind any kind of grain to whatever degree of fineness you desire or which ever will best suit the use or condition of your chickens. Weight, 22 lbs.

Price, \$4.00. Add postage.

The Wilson Dry Bone Mill



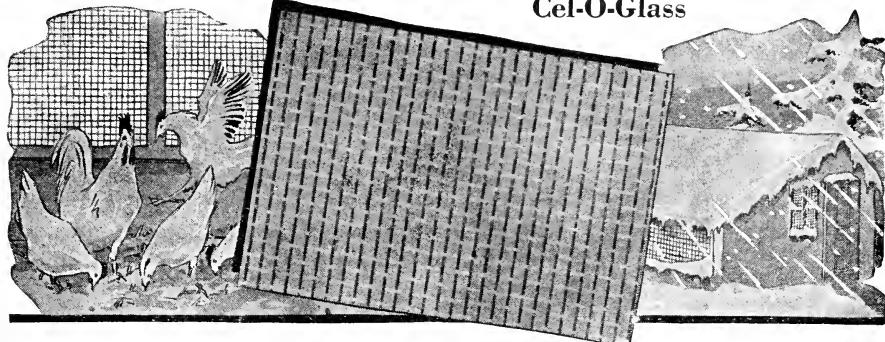
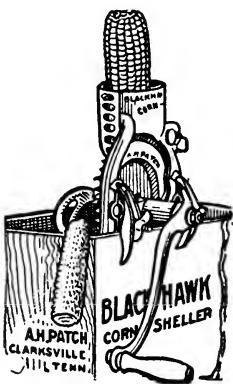
This is a practical mill, grinding all kinds of shells, crockery, grit, burnt or dry bone feed, etc. Instantly adjusted to grind coarse or fine. Weighs 33 pounds. Diameter of hand wheel, 20 inches. Price, \$7.50. Add postage.

BLACK HAWK CORN SHELLER

A Sheller That Shells

It can be set to shell any corn that grows. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumbscrews—no bolts nor screws required—no holes to be bored. Weight, 14 lbs. Price, \$3.50. Add postage.

Weight, 22 lbs. Price, \$3.50. Add postage.



CEL-O-GLASS

Is a light weight, flexible, weatherproof material made by coating wire mesh with a transparent substance which will not rub off or dry out. It can be cut or bent to any desired shape, and is practically indestructible.

Cel-O-Glass is clear, tough and flexible. It is hail, rain, wind and rust proof, is a non-conductor of heat and cold, light in weight, and easy to apply.

In addition to furnishing a protection for your poultry, CEL-O-GLASS lets through the valuable, stimulating and health-giving Ultra-Violet rays of the sun. Glass absorbs the Ultra-Violet rays and keeps them out. CEL-O-GLASS is ideal for hothed sash, coldframes, greenhouse partitions and exterior sides and fronts, storm doors, cellar windows—in fact, wherever light and protection from the weather are required.

CEL-O-GLASS is made in rolls 3 feet wide, and 100 feet in length. Weight, 44 pounds. Price, per yard, \$1.20. Add postage.

Banner Root Cutters



No. 7

These excellent machines are so low in price that every farmer, stock raiser or poultry man should have one, as roots are the cheapest green feed for stock and poultry.

The Banner is substantially made of first-class material. Weight, 50 lbs. Extra knives, 35c each. Price, \$9.00.

Cel-O-Glass

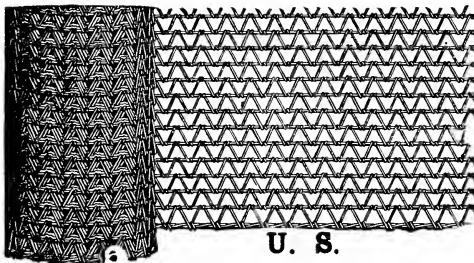


Flex-O-Glass

See Page 125

Used very extensively for porches, hot beds and poultry houses. This is recommended very highly for poultry houses on account of its admitting the sun's vital ultra-violet rays, which are so essential in securing the maximum number of eggs from your flock. It is said on good authority that glass will not admit the entrance of ultra-violet rays into your poultry house, hence the great advantage in the way of increased egg production, larger profits and a much more healthy condition of your fowl will result from the use of Flex-O-Glass instead of glass. In addition it is much cheaper than glass. Width 3 feet.

Price—Less than ten yards, 35c per yard; 10 yards and over, 32c per yard.



U. S.

Poultry Netting

Prices per roll of 150 feet:

	One Inch	Two Inch
12 inches.....	\$3.00	12 inches..... \$1.50
18 inches.....	4.25	24 inches..... 2.35
24 inches.....	5.45	36 inches..... 3.20
36 inches.....	7.40	48 inches..... 4.30
Less than roll, 3c square foot.		60 inches..... 5.35
Less than 50 feet, 3½c square foot.		72 inches..... 6.40

Prices subject to change.

Poultry Feeds

There are three great essentials to success in the poultry business: Stock, Care, Feed. The success of the poultry man will depend upon the care and attention given to these three points. We are not supplying stock, and can not give care, but we can and are supplying feed.

Prices on all poultry feed subject to change.

Clover Leaf Egg a Day

Experience has shown that better results can be obtained by feeding poultry well-balanced feed, and feeding a greater proportion in mash form, either in a dry state or slightly moistened. It therefore becomes necessary to feed a well balanced mash high in protein. Clover Leaf Egg A Day is compiled on an approved formula and is without doubt one of the best mashes on the market. Analysis: Protein, 20%; Fat, 5½%; Moisture, 12%; Fiber, 7½%. Price, 80-lb. bag, \$2.00.

The sharpest and hardest grit known. Free from dust. Rich in iron, silica, aluminum and mica. Each crystal has sharp edges, which cut and grind, and grind and cut until the last minute particle is worn away. In ordering state whether you want chick or medium size.
100 lbs., \$1.00.



For description of Flex-O-Glass, see pages 103 and 125.



CLOVER LEAF FORCING FEED, as its name implies, is specially intended for properly manufacturing young chicks after they are ready to be weaned from chick feed. When the chicks are from six to eight weeks old they are able to eat larger particles of grain than are found in our chick feed.

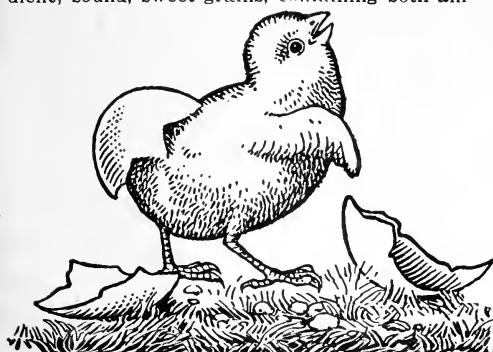
Our Forcing Feed contains a variety of grain in sizes and quantities exactly suited to the purposes for which it is intended. 50 lbs., \$1.50; 100 lbs., \$2.75.

This is composed of choicest grains in just the correct proportions that several years of experience has demonstrated is right. Every practical poultryman will readily concede the great advantage of feeding such a mixture. Price, per 100 lbs., \$2.25.



Ryde's Startrite Chick Feed

Ryde's "Startrite" Chick Food is an absolutely safe and complete food on which to start baby chicks. Composed only of the choicest ingredient; sound, sweet grains, containing both ani-



mal and vegetable proteins in the correct proportions. It promotes rapid and thrifty growth. It contains a liberal quantity of buttermilk; the lactic acid being very beneficial to baby chicks, and is the one complete food on which you take no chances.

Nothing is too good for Baby Chicks at the start. They eat so little that for the difference of a few cents it pays to buy the best.

5 lbs.	\$0.40	50 lbs.	\$3.00
10 lbs.	.70	100 lbs.	5.50
25 lbs.	1.60		

Add postage.

Have-to-Grow

Ryde's Have-to-Grow is all that its name implies and is made up of the same high grade materials as their Startrite and executed with the same painstaking care and is specially prepared with buttermilk, to be fed to chicks after they have attained an age of from six to eight weeks.

Have-to-Grow mash contains the best growing elements together with all of the necessary minerals for bone development, hence will insure the most rapid growth. Protein, 16%; fat, 4%; fiber, less than 5%. 25-lb. bag, \$1.50; 100 lbs., \$5.00. Add postage.

Alfalfa Meal

The value of some green food for fowls can hardly be overestimated. For a winter feed alfalfa is one of the best for this purpose. It contains more protein, lime and mineral salts in soluble and digestive form than clover, and fowls relish it in either a green or dry state. For producing eggs it has no equal. 100 lbs., \$1.75.

Alfalfa Leaves and Blossoms

It is well understood that alfalfa meal is ground alfalfa hay, while the leaves and blossoms are secured as these fall from the handling of the alfalfa, consequently they contain much less fiber and are a much richer food. 50-lb. bag, \$3.00.

Bone, Granulated

Many poultrymen prefer granulated bone to fresh or green bone. Fresh bone contains 53 per cent of moisture and 12 per cent of grease, so that when a poultryman buys fresh bones he pays for 65 pounds of useless materials in every 100 pounds he buys. Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. 100 lbs., \$3.25.

Bone Meal

This is the same as granulated bone, but ground finer, so that it can be fed in a mash or to young chicks. 100 lbs., \$3.25.

Blood—Dried

One great reason why hens do not lay in winter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood. Blood is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use about one tablespoonful to six hens once a day. 100 lbs., Armour's, \$5.00.

Charcoal, Granulated

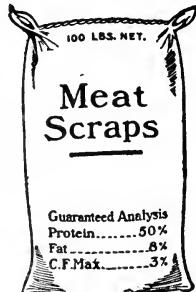
It aids digestion, purifies the blood, regulates the bowels and promotes the general good health of the chicks and adult fowls. Fine granulated, for all mash rations and for small chicks and a coarser granulated for adult fowls. Price, 50-lb. bag, \$2.00.

Meat Scraps

The object in buying Meat Scraps or Meat Meal is to obtain the largest amount of digestible protein possible. Meat Scraps contain from 50 to 65% of protein. Spokane made. \$5.00.

MEAT MEAL—50 per cent protein. Price, Spokane product, \$5.00.

Prices on all poultry feeds subject to change. Full value sent for remittance received.



Shell

The feeding of shells to poultry prevents soft shelled eggs, making the shells strong, and eggs larger and heavier.

Eastern Oyster Shell, per bag, \$1.50.

Western Shell, \$1.25.

LICE KILLERS AND DISINFECTANTS

"Black Leaf 40" "painted" full strength (1 oz. to 12 or 15 feet of roost) on the top-sides of the roosts before fowls perch for the night, kills body-lice. Fumes are slowly released, which permeate the feathers. The fumes from one "painting" persist for several days.

1-oz. bottle	\$.35	2-lb. tin	\$3.75
1/2-lb. bottle	1.25	5-lb. tin	7.00
1-lb. bottle	2.50	10-lb. tin	11.85

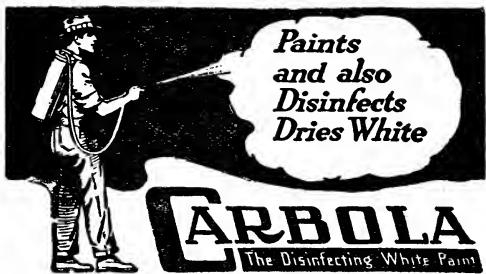
Not mailable.

Buhach

1 1/2-oz. pkg., 30c; 3-oz. pkg., 50c; 6-oz. pkg., 75c; 12-oz. pkg., \$1.25. Add postage.



LICE LIQUID is for painting roosts, fittings, the inside of house, nest boxes and wherever mites congregate. Cans—qt., 60c; 2 qt., 90c; gal., \$1.50. Not mailable. Express or freight extra.



ARBOLA

The Disinfecting White Paint

Turns the whitewashing job into pleasant rainy-day work that can be done easily and quickly at a saving of time, labor and money.

THE POWDER OF MANY USES

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. One pound covers 100 square feet.

Price, 10 lbs., \$1.85; 50 lbs., \$7.50; add postage.

HEAD LICE OINTMENT is for overcoming and preventing the murderous head louse which "eats up" baby chicks. Packages, 15c, 30c, 20c and 35c, postpaid.

LICE FIX is a preparation in ointment form for fighting body lice. One application lasts a month. Packages, 30c, 60c; 35c and 65c postpaid.

LICE POWDER is for dusting hens, nests, growing chicks and for use wherever body lice must be overcome. Pkg. 30c. Mailing weight 2 lbs. Add postage.

Revenge

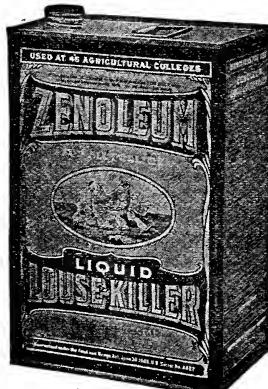
Put Revenge in the dustbox. Its reputation as an absolutely safe vermin destroyer convinces that it not only instantly kills, but keeps poultry free from both **HEAD** and **BODY** Lice—It sticks to the fowl—IT WON'T DUST OFF.

REVENGE PLACED in the dust box means Vermin Protection for All Fowls. Directions on each package.

1 1/2-lb. can, 65c; 3-lb. can, \$1.00. Mailing weight, 2 and 4 lbs.; add postage.

Tobacco Dust

For use in dust baths or nests. A cheap and effective exterminator of lice. Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.25; 100 lbs., \$7.50.



Zenoleum

One gallon of Zenoleum makes 100 gallons of positive disinfectant. Kills vermin, cures skin trouble. Invaluable as a remedy for diseases of poultry and all live stock. Kills lice and cures mange. Disinfects incubators. Pint, 50c; qt., 80c; 1/2 gal., \$1.30; gallon, \$2.00. Not mailable. Express or freight extra.

Poultry Remedies

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of selecting best strains and well balanced feeds, and having on hand at all times reliable remedies to be used at the first symptoms of disease.

Ask for Conkey's or Lee's Poultry Books.

Conkey's

CANKER AND BRONCHITIS—Checks cancerous growths and sores and soon restores the bird to normal. This remedy is Conkey's Specific for bronchitis. Also desirable in treating individual cases of Roup and for use at shows when birds develop colds. Package, 60c; postpaid, 65c.

CHOLERA—So-called cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water. Package, 30c, 60c; postpaid, 35c and 65c.

GAPE—Gape worms accumulate in the windpipe and choke the chick to death. Conkey's Gape Remedy comprises two powders—both in the same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers and retain its vitality. 30c, 60c; postpaid, 35c, 65c.

LAXATIVE—Wherever a laxative or purgative is needed this remedy is just the thing for birds—by varying the dosage you can produce either a mild or strong effect. Packages, 30c, 60c; postpaid, 35c and 65c.

LIMBERNECK REMEDY—For ptomaine poisoning. Packages, 60c; postpaid, 65c.



ROUP—When birds sneeze, froth in eyes, or run at nose put Conkey's Roup Remedy in the drinking water. Sick birds doctor themselves and others are protected from catching the disease. Better still, always at the first sign of "roupy weather," place Conkey's Roup Remedy in fountains—it's a great preventive.

Packages, 30c, 60c; \$1.20; 1 1/2 lb. can, \$2.50; 5-lb. can, \$5.75; or postpaid, 35c, 65c, \$1.25; \$2.60, \$5.95.

ROUP PILLS—Packages, 30c, 60c; postpaid, 35c and 65c.

SCALY LEG—Applied to birds' legs will in a few treatments kill the parasites responsible for the trouble and heal up the legs with a healthy lustre. Package, 30c; postpaid, 35c.

SORE HEAD (Chicken-Pox)—Little brown spots appear on comb, face and wattles. Under these is a pocket of virulent pus. Apply Conkey's Sore Head Remedy. Package, 30c and 60c; postpaid, 35c and 65c.



WHITE DIARRHEA—As a preventive of bowel troubles, white diarrhea and other digestive complaints, it has given great satisfaction for many years. Once started diarrhetic conditions often sweep away the whole hatch. This remedy is also recommended as a preventive measure and for treatment of coccidiosis. Packages, 30c, 60c, \$1.20; postpaid, 35c, 65c, \$1.25.

Lee's

CAPSULES—An Insoluble Capsule carrying a triple combination worm medicine for Tape worms, Round worms and Pin worms. Being insoluble, it passes through the mouth, throat, crop and stomach of the fowl to the gizzard where it is ground up like a grain of corn, pouring the full strength, undiluted medicine directly into the intestines upon the worms.

The GIZZARD CAPSULE is successful, wonderfully so, in fact. The capsules may be administered without chasing, catching or frightening the birds (which always interferes with egg production), by doing the work in the evening, by dim light while the birds are at roost. A capsule, dipped in raw linseed oil, olive oil, or even melted lard or butter, slipped into the bird's mouth, is swallowed instantly and the work is ended.

GIZZARD CAPSULES do not cause sickness or depression if used according to directions on birds that are in normal health except for worms.

Adult	Chick
50 capsules \$1.00	50 capsules \$.65
100 capsules 1.75	100 capsules 1.00
250 capsules 4.00	250 capsules 2.50
500 capsules 7.00	500 capsules 4.50
1000 capsules 12.00	1000 capsules 8.00

Postpaid.

FLU-KOFF EMULSION is a cough syrup which greatly helps to allay cough, reduce temperature and overcome irritation and inflammation. Especially recommended for use with Vapo-Spray in very severe cases of Bronchitis. Give in wet mash or soaked oats.

Vapo-Spray and Flu-Koff Emulsion are two separate and entirely different medicines. Either can be used alone and each has proven a great remedy. Together, however, they comprise a double treatment, which is doubly effective.

12-oz. bottle \$1.25	1/2-gallon bottle \$3.75
32-oz. bottle 2.25	1-gallon bottle 7.00

Not mailable.

GERMOZONE

Keeps Chickens Healthy



GERMOZONE, without a doubt, is the most widely used poultry remedy on the market today. Its unusual popularity is due entirely to its merit. It is especially valuable in preventing and controlling the diarrhoeas and digestive

disorders of little chicks and grown fowls. The regular use of Germzone in the drinking water every other day is a big factor in preventing disease among poultry. Use it for Bowel Complaint in little chicks; for Cholera, Roup, and other diseases among the older fowls.

Germzone has been widely used with remarkable results in treating, controlling and preventing Necrotic Enteritis and other intestinal disorders of swine.

4-oz. bottle	\$.40	1/2-gallon bottle	\$2.50
12-oz. bottle .....	.75	1-gallon bottle	4.50
32-oz. bottle	1.50		Not mailable.

NON-PIKK will, if used in time, prevent toe-picking, rump-picking, feather-pulling—cannibalism. It is as effective on old birds as it is on young. Just treat the birds and return them to their pens and watch them get their lesson—one taste and they never forget. It is repulsive to the taste, but not injurious.

NON-PIKK acts as a soothing ointment, is antiseptic, and rapid in the healing of open wounds. It relieves the smarting sensations of skin irritation.

At the first sign of toe-picking, etc., apply a small amount of NON-PIKK on the wings and tails of several birds in each pen. It is not necessary to confine treatment strictly to picked birds. In severe cases of feather-picking in old birds, a flock treatment is advised, allowing one pound of NON-PIKK to about each 100 birds. Also stops feather pulling in song birds.

1 oz.	\$.25	1/2 lb.	\$1.00
1/4 lb. ....	.75	1 lb.	1.50

VAPO-SPRAY is a compound of healing oils. It is simply wonderful for the treatment of colds which occur very frequently among poultry during the late Fall and Winter months. Spray it in the air of the poultry house at night. The chickens breathe the vapors given off, which produce almost instantaneous relief. The entire flock can be treated as easily as one bird.

32-oz. can	\$.75	1-gallon can	\$2.25
1/2-gallon can	1.25		Not mailable.

Peat Moss

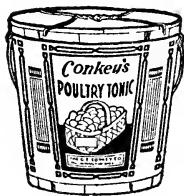


Peat Moss, by keeping the floors and quarters dry, prevents the spread of the most harmful baby-chick diseases. Peat Moss is more economical than any other form of litter, both in actual cost of material and in saving labor of cleaning and renewing litter.

Peat Moss is a powerful absorbent and readily takes 14 to 15 times its own weight in water. Peat Moss should be spread evenly on the floor from an inch deep for chicks to three or four inches deep for full-grown birds. Bale weighs about 150 lbs. Price per bale, \$3.25.

Poultry Tonics

POULTRY CONDITIONER—For general rundown condition; a fine general tonic during the moulting season or after recovery from any disease. Pkg., 30c; weight, 10 oz.; postpaid, 35c.



Conkey's Poultry Tonic fills the egg basket in spite of weather. It is not a food, but a tonic to be mixed with the regular feed during seasons when fowls get sluggish and want to loaf instead of lay.

	Net Price	Gross Weight	Weight
Package	\$.30	1 1/2 lbs.	1 3/4 lbs.
Package	.60	3 1/4 lbs.	3 1/2 lbs.
Package	1.20	7 lbs.	7 1/2 lbs.
Pail	2.25	12 lbs.	14 1/2 lbs.
Pail	3.75	25 lbs.	29 lbs.

Add postage.

Cod Liver Oil and Yeast



By supplying needed vitamines, cod liver oil and yeast, banish leg weakness and other chick troubles, promote rapid and vigorous growth and keep hens in the pink of condition, able to produce a heavy lay.

Conkey's Y-O, which is a combination of yeast and cod liver oil made by a special patented process, solves the problem in an economical way. The product comes in the form of a dry chocolate-brown powder, which is free running and readily mixed with any poultry mash.

	Net Price	Gross Weight	Weight
Package	\$.60	1 lb.	1 1/4 lbs.
Package	1.10	2 lbs.	2 1/4 lbs.
Package	2.25	5 lbs.	5 1/2 lbs.
Package	9.00	25 lbs.	30 lbs.

Add postage.

Cod Liver Oil

Recent studies in the science of nutrition show that certain Vitamins are necessary for proper growth, body maintenance, and reproduction. Of the known Vitamins, the following are important in poultry feeding:

Vitamin "A" is a growth producing Vitamin and is also essential for the maintenance of disease resistance.

Vitamin "B" is also necessary for proper growth. A lack of it promptly prevents growth.

Vitamin "D" is the one which prevents or cures leg-weakness or "rickets" in young chicks

KEEPING QUALITIES

If kept from the action of air, light, and moisture, good refined oil will keep for an indefinite length of time, retaining its Vitamin potency. Upon exposure to the air, it rapidly deteriorates and loses its Vitamin strength through oxidation. If it is mixed in a feed and allowed to stand for any length of time its value will largely disappear.

Price per gallon, \$1.65, when we furnish container; \$1.50, when customer furnishes container. Put up in glass gallon jugs. Not mailable.

Poultry Pepper Compound

This is a splendid tonic at all times. A small amount sprinkled in with a hot mash will stimulate the circulation and increase egg production. Lb., 30c; 5 lbs., \$1.50; 10 lbs., \$2.80; 25-lb., \$6.50; add postage.

Bird Seed

MIXED—Per lb., 20c; 2 lbs., 35c.

CANARY—Per lb., 20c.

HEMP—Per lb., 15c; 2 lbs., 25c.

MAW—Per lb., 20c.

RAPE, SWEET—Per lb., 20c.

MILLET—Per lb., 15c; 2 lbs., 25c.

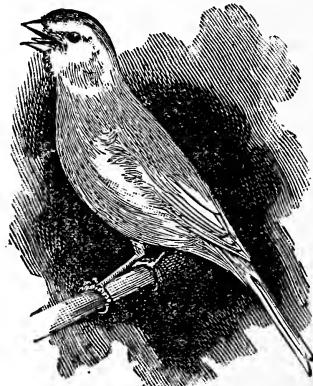
CUTTLE BONE—Two for 5c.

SUNFLOWER—Per lb., 15c.

All bird seed recleaned.

Add postage on all bird seeds.

BIRD SPECIALTIES



BATH DISHES—Made of porcelain, sanitary. Price, 20c; postpaid, 25c.

BIRD BITTERS—A remedy for nearly all the diseases of cage birds. 30c; postpaid, 35c.

BIRD MANNA—Keeps cage birds in constant song, improves their plumage and prevents disease. 15c; postpaid, 20c.

BIRD SAND—Pkg., 2 lbs., price 20c; add postage.

mite powder—To free the bird from mites, blow a little of the Mite Powder under the feathers of the bird in the evening by means of an insect powder gun. At night cover the cage with a piece of white canton flannel. Early next morning remove the flannel and carefully destroy all the mites, which have crawled into it during the night, by immersing it in hot water. Price, 30c; postpaid, 35c.

MOULTING PEPPER—When fed during moulting season it produces red-tinted feathers. Price, 30c; postpaid, 35c.

NESTS—Very convenient and suitable. Price 15c; postpaid, 20c.

NESTLING FOOD—Special preparation and very highly recommended. Price, 30c; postpaid, 35c.

NESTING HAIR—Much better than any substitute. Price, 20c; postpaid, 25c.

ORANGE COLOR FOOD—Deepens and intensifies the natural color of the plumage. Feed to young birds after they are eight weeks old. Old birds during the moulting period. Price, 30c; postpaid, 35c.

SONG RESTORER—A treat and tonic for canaries, linnets, and all seed-eating birds. 25c; postpaid, 30c.

Booklet on cage birds, free on request.

POWDER GUNS—25c; postpaid, 30c.

DOG BISCUITS



PUPPY BISCUITS (The Standard Puppy Food)—A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old. Pkt., 50c; mailing weight 3 lbs. Add postage.

DOG BISCUITS—The analysis of these biscuits shows that they are, weight for weight, equal in nourishment to fresh raw beefsteak and superior to it as a food for dogs. The standard dog food; a staple and constant food for all breeds of dogs. Square biscuit: Pkt., 45c; 5 lbs., 80c; 10 lbs., \$1.55; 25 lbs., \$3.40; 50 lbs., \$6.60; 100 lbs., \$13.00.

Oval Biscuit: Pkt., 50c; 25 lbs., \$4.00; 50 lbs., \$7.50; 100 lbs., \$14.75.

Fibo biscuit oval: Pkt., 50c; 25 lbs., \$4.25; 50 lbs., \$8.00; 100 lbs., \$15.75.

Charcoal biscuit oval: Pkt., 50c.

Kibbled biscuit: 10 lbs., \$1.65.

Cat biscuit: Pkt., 50c.

Catnip leaves, 25c, postpaid.

Mailing weight, pkgs., 3 lbs.; mailing weight of bags, 1 lb. more than their priced weight; add postage.

Booklet, Spratt's Dog Culture, mailed on request.

Sol-Hot Oil Brooders stand without a rival. Distributed by the Inland Seed Co.

DOG REMEDIES—CLAYTON'S



BOOK ON DOG DISEASES—AND HOW TO FEED—FREE

BLOOD PURIFYING AND COOLING PILLS—Especially useful in Eczema and all skin diseases. 60c.

CHOREA is an affection of the nervous system. Tablets, 60c.

COUGHS—Cough Remedy, liquid, for coughs and colds from whatever cause. 60c.

DIARRHOEA—Diarrhoea Remedy, tablets; very effective. 60c.

DISTEMPER—Distemperine tablets, for distemper. 60c.

FLEAS—Ceoine Dog Wash, for fleas and for a disinfectant. 40c.

Cream soap, for fleas and washing dogs. 35c. Kiflea soap, for fleas. 35c.

INDIGESTION—Digestive tablets, for all forms of indigestion. 60c.

Laxative pills. Act directly on the liver and keep the bowels in good condition. 60c.

MANGE—Mange Remedy. Best remedy known for this disease. 60c.

Skin lotion, for all skin diseases. 60c.

WORMS—Vermifuge (soft capsules), also liquid. Can be given to small puppies, as well as dogs. 60c.

Worm pills. Composed of the best remedies known for the expulsion of worms. 60c.

RUNDOWN CONDITION—Condition pills, with pepsin. A very reliable remedy in all rundown conditions. Also very valuable in cases of distemper. Price, 60c.

CLAYTON'S DOG REMEDIES have long had a reputation for being very dependable, and they are generally considered as being the most desirable.

Add 5c to quotations if forwarded by mail. Booklet on care of dogs, free on request.

A complete line of dog collars, harness, muzzles and leads. Different sizes and prices.

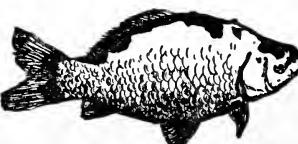
Collars from 10 inches to 22 inches in length and prices from 60c to \$4.00. Harness from 14 inches to 28 inches and prices from \$1.25 to \$4.75.

Leads 48 inches—chain leads, 40c; leather leads, 45c to \$1.20.

Muzzles—small and medium, \$1.10; large \$1.20.

Add 5c to above prices for postage.

FISH FOOD

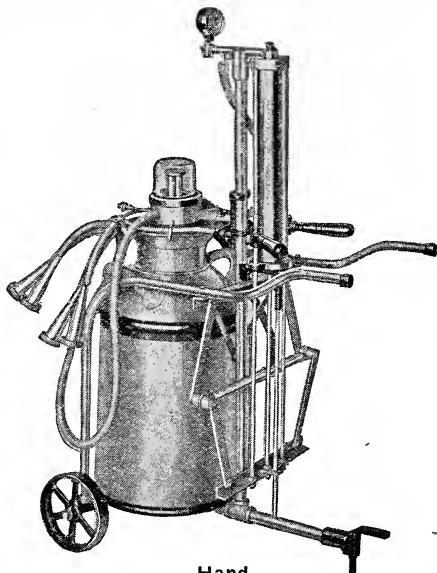


WAFER FISH FOOD—This, as its name implies, comes in wafer form and is a highly nutritious preparation which is eagerly eaten by gold fish and other fish. Price, 20c; postpaid, 25c.

Dairy Supplies

The Page Milker

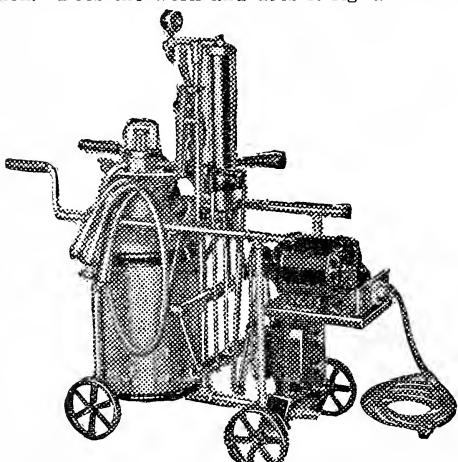
It is an acknowledged fact that Milkers will milk a given number of cows in less time than the same cows can be milked by hand. The greatest drawback to the ordinary farmer and small dairy has been the cost of milking machines that required installation by a system of pipes. This has been overcome, and we are now offering the Page Portable Milker at a much less price (because they do not need a pipe system of installation) with a guarantee to give entire satisfaction and to do as good work or better than any other milker on the market.



Hand

Here's the milker for the man with a few cows. Run by hand.

This hand operated model now brings machine milking within reach of every farmer. Just move it in and start milking—no installation. Does the work and does it right.



Electric

ELECTRIC

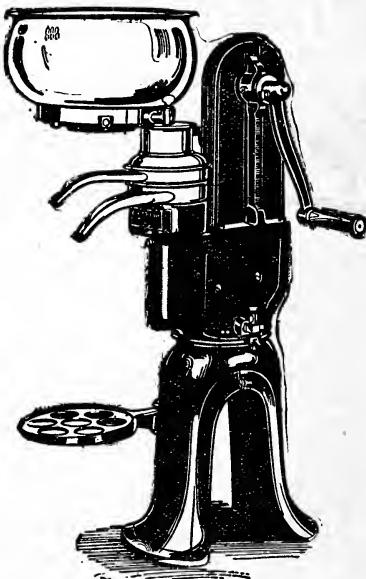
Here's the milker for the man who has electricity. Wheel behind the cows, turn on the electric switch and attach the teat cups for milking. The machine does the work, does it perfectly and with less bother and fuss than any other milker on the market. Requires only one-sixth horse-power—thus may be run from the battery of any farm lighting plant without even starting the engine of the plant. Should the electricity fail you at any time, for any reason, you can disengage the power mechanism in a moment and operate the milker by hand.

GAS

Here's the milker for the man who wants a power milker and has no electricity. A small compact unit requiring no installation and still does exactly the same work as the big elaborate power installations and does it better. Just move it from one set of cows to the other, start the engine and the milker does the work. Comes equipped with reliable three-quarter horse-powered engine which is fully guaranteed.

Remember all these models are portable. Nothing to install. No fuss, no bother, nothing to build or fit into your barn.

Renfrew Cream Separator



The Renfrew bowl is open, sanitary and simple. It has few parts to wash. The boxed wings direct the flow of milk to the bottommost discs, making the whole milk travel the greatest possible distance under pressure for the required length of time and ensures complete separation. That's why it saves 99 99-100 per cent of the butter fat.

Some reasons why the Renfrew Cream Separator is the most economical and the best to use:

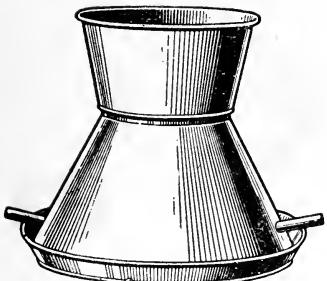
	No.	Capacity.
Smoothness of parts.	2	350
Self-oiling system.	4	450
Ease of cleaning.	6	600

Guaranteed in every respect. If not entirely satisfactory money refunded.

Send for descriptive circular.

SEPARATOR OIL

Standard, gallons	\$1.25
Standard, half gallons	.75

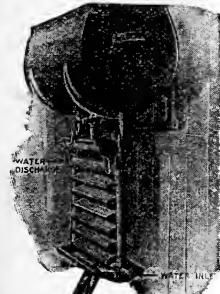


Conical

The Conical is a rapid cooler, conical, reducing the temperature of the milk in one minute nearly to the temperature of the cooling medium. Can be used with any cooling medium, either running water, ice water, or, if a very low temperature is not required, ordinary well or spring water. The top is removable so that ice may be put directly into the cooling drum.

Cap'y of Milk Water

Rec'r	Rec'r	Number	Gal.	Gal.	of Cows.	Price.	Wt.
No. 2	4½	12	15	\$13.00	25	
No. 3	5½	20	25	15.50	35	



Junior



CANS

OHIO—This can is made with a single neck and is fitted with the popular outside bottom loop. It has round handles and will be found a very satisfactory can, as it is strong, durable and will withstand very rough usage.

Price, with cover as shown in cut:

5 gallons	.....	\$3.50	Weight, 11 lbs.
10 gallons	.....	4.50	Weight, 17 lbs.

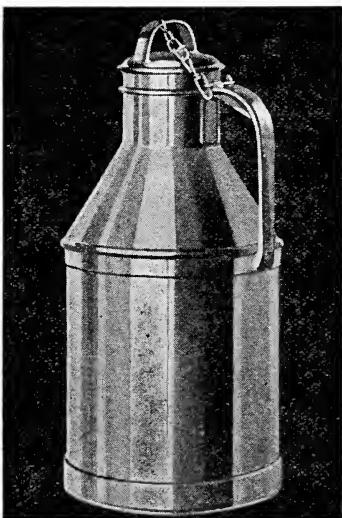
MILK CAN LINKS—Less than 100, 5c each; 100, \$4.00; 500, \$17.50; 1,000, \$30.00.

MILK CAN SEALS

Seal your cans; insure yourself against loss at a very small cost.

Lead, single wire, 100, 50c; 500, \$1.50; 1,000, \$2.50. Weight 6 lbs. per 1,000.

Seal press, each, \$2.75; weight, 2 lbs.; add postage.

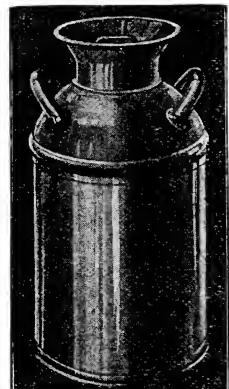


MILK COOLER

JUNIOR—This cooler is of tin construction and is as strong and durable as it is possible to construct it.

Capacity per

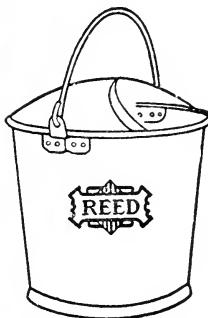
No.	Hr.	Price
A	20-gal.	\$35.00
B	40-gal.	39.50
C	60-gal.	46.50



DELIVERY—Side handle, cover chained to can; well made and durable.

	Wt.	Price.
1 Gallon City Delivery	3 lbs.	\$2.00
2 Gallon City Delivery	4 lbs.	2.25
3 Gallon City Delivery	4 lbs.	2.00
Add postage.		
2 Gallons St. John		\$3.00 7 lbs.
3 Gallons St. John		3.50 8 lbs.
Add postage.		

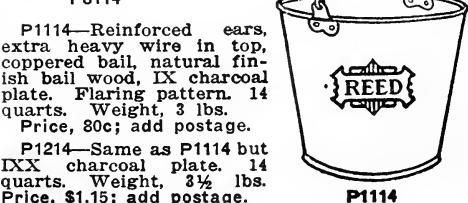
PAILS



P8114

P1114—Hooded. One-piece top or hooded. Steel bail. Reinforced ears. All seams sanitary soldered inside and outside. IX charcoal plate. 14 quarts. Weight 4 lbs.

Price, \$2.00; add postage.



P1114

P1114—Reinforced ears, extra heavy wire in top, coppered bail, natural finish bail wood, IX charcoal plate. Flaring pattern 14 quarts. Weight, 3 lbs.

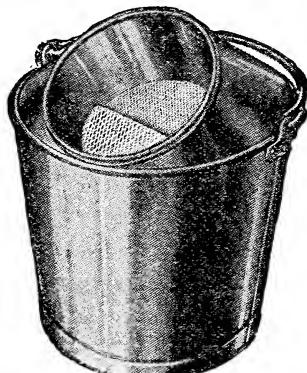
Price, 80c; add postage.

P1214—Same as P1114 but IX charcoal plate. 14 quarts. Weight, 3½ lbs. Price, \$1.15; add postage.



P5214—Reinforced ears, heavy steel bail. Straight pattern IXX charcoal plate, 14 quarts. Weight, 3½ lbs. Price, \$1.00; add postage.

P7214—Reinforced ears, heavy steel bail, sanitary soldered inside and outside. Straight pattern IXX heavy charcoal plate, 14 quarts. Weight, 3¾ lbs. Price, \$1.25; add postage.



The STERILAC PAIL is so constructed that the dirt dropping into the opening is caught on the dirt shelf or screen, and not on the milk strainer, which is protected from falling dirt by the top part of the pail. The milk does not fall vertically, but slants toward the milker, passing above the dirt screen to the strainer.

The Sterilac is made of heavy material, with the best of workmanship. All joints are fully flushed with solder, consequently the pail is easy to keep clean. Price, \$4.50. Weight, 5 lbs. Add postage.

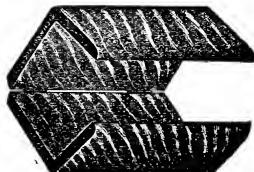
Cream Cans

1620—Heavy, seamless outside cover. Heavy ears. Coppered bail. Natural finish bail wood. Cover without handle. Rounded bottom. No gauge or faucet. IX charcoal plate. 20 quarts. Wt. 3½ lbs. Price, \$1.50; add postage.

P17220—Heavy seamless inset cover, heavy ears, coppered bail, natural finish bail wood, cover with handle, flat bottom. With gauge and faucet. IXX charcoal plate. 20 quarts. Weight, 5¾ lbs. Price, \$3.00; add postage.

BUTTER MOLDS

All wood, brass hinges and screws. Price, 60c; weight, 1 lb.; add postage.



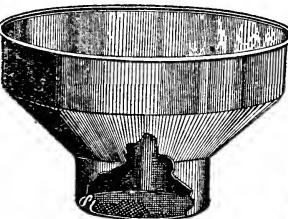
STRAINERS



Heavy, seamless. Body and foot drawn from one piece. Heavy wire around top. Reversible wire ring to hold cloth.

No.	Capacity	Price	Weight
P1934	4 quarts	\$1.25	1½ lbs.
P1936	6 quarts	1.50	1¾ lbs.
P19712	12 quarts	2.25	3 lbs.

Add postage.

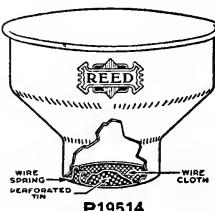


Wire Spring, 50c

Brass Wire Cloth, 50c

Perforated Tin, 50c.

P19412—Extra heavy seamless, heavy wire around top; sanitary soldered. Equipped with removable brass wire cloth, perforated tin disc and wire spring. 12 quarts. Price, \$2.00. Wt., 3 lbs. Add postage.



P19514

P19514—Same as P19412 but equipped with one flat and one convex perforated tin disc and wire spring. 14 quarts. Price, \$2.50. Weight, 3½ lbs. Add postage.



MILK AND CREAM SCALE

CHATILLON SPRING BALANCE

This scale is specially made for weighing milk in pails. The dial is divided into ounces. The indicator is adjustable, so that it can be set back to take out weight of pail. Each scale carefully tested.

30 pounds capacity	\$7.25
60 pounds capacity	9.50
120 pounds capacity	12.75
Mailing weight, 3, 4, and 6 lbs.; add postage.	



Metal

The dasher in conjunction with the square corners of the receptacle, produces a thorough and scientific agitation making it possible to churn in 6 to 15 minutes.

Perfectly sanitary, the receptacle being non-absorbent, and no cracks to harbor the cream and become rancid.

Capacity

Holds	Churns	Material	Price	Weight
4 pints	2	Glass	\$2.00	8 lbs.
6 pints	4	Glass	2.50	10 lbs.
8 pints	6	Glass	3.25	12 lbs.
2 gallons	1	Metal	5.25	14 lbs.
3 gallons	1 1/2	Metal	6.75	18 lbs.
4 gallons	2	Metal	8.25	20 lbs.

Add postage.

GLASS JARS FOR CHURNS

Size.	Price.	Wght.
4 pints...	\$0.75	8
6 pints...	1.00	10
8 pints...	1.30	12

Add postage.

All glassware packed carefully, but safe delivery not guaranteed.

TURBINE BOTTLE WASHERS

The 20th Century



This bottle washer is made with a new gearless turbine, the speed being controlled by the governor. When the speed of the turbine reaches a certain point the governor operates to prevent the speed exceeding the limits of safety. This governor is in a separate case to keep out the moisture, which would have a tendency to cause the bearings to rust and cause it to act too slowly. The cover to this case can be removed in a moment and the speed adjusted at any desired point.

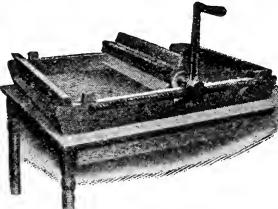
Price, \$35.00.

Dazey Churn



Glass

Wizard Butter Worker

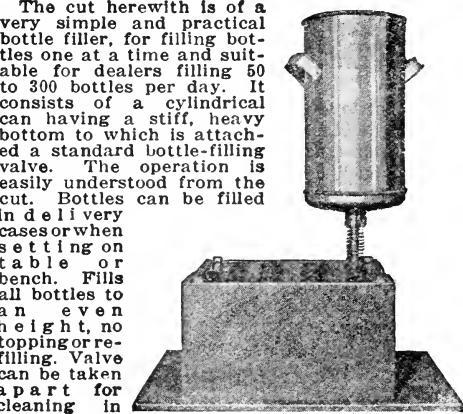


This style butter worker is a favorite with many. Butter is placed in the tray, salt added then worked by turning the crank, which causes the fluted roller to travel to and fro.

No. 3—Size, 17x27 in. and 3 in. deep inside; capacity, 20 lbs.; weight, 25 lbs. Price, \$10.00. Add postage.

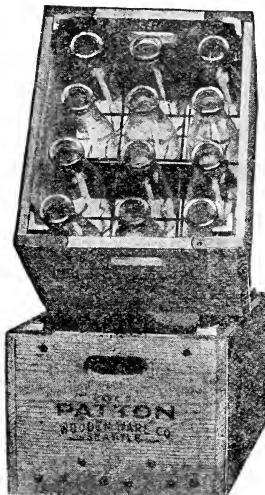
SINGLE VALVE FILLER

The cut herewith is of a very simple and practical bottle filler, for filling bottles one at a time and suitable for dealers filling 50 to 300 bottles per day. It consists of a cylindrical can having a stiff, heavy bottom to which is attached a standard bottle-filling valve. The operation is easily understood from the cut. Bottles can be filled in delivery cases or when setting on table or bench. Fills all bottles to an even height, no topping or re-filling. Valve can be taken apart for cleaning in less than five seconds. Price, tin can, no case furnished, \$15.00.



DELIVERY CASES

Wood



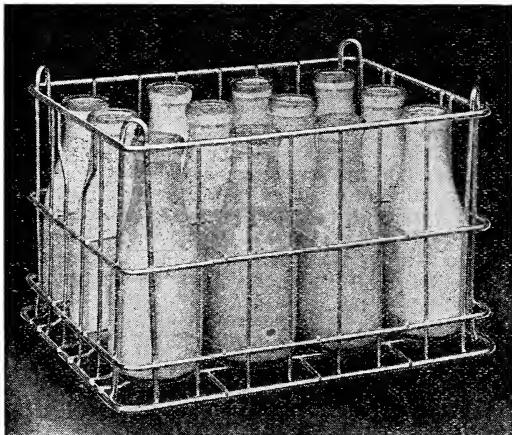
12-quart, \$1.75;
weight, 13 lbs.;
add postage.

20 - pint, \$1.75;
weight, 11 lbs.;
add postage.

20 half - pint,
\$2.00; weight, 13
lbs.; add postage.

PATTON
WOODENWARE CO.
SPARTA, N. J.

Sanitary Tinned Wire Delivery Cases

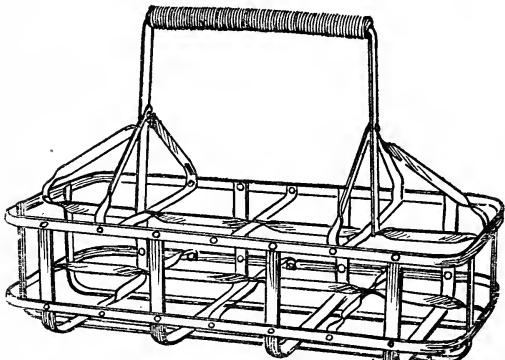


This bottle crate is constructed of the best grade basic steel wire and is electrically welded at every intersection of the wires. This process is accomplished under intense heat and great pressure and forms a perfect union of the metal at each joint.

Size	Capacity	Price	Weight
Quarts	12	\$2.25	10
Pints	20	\$2.50	12
½ Pints	20	\$2.75	14

Add postage.

Bottle Carriers



These Carriers are made from $\frac{3}{8}$ -inch cold rolled flat steel wire, riveted in each intersection and hot galvanized after made. They are constructed for carrying quart bottles and have a lower partition so that they will hold pint bottles also.

Capacity	Price	Weight
6 qts.	2.00	3
8 qts.	2.50	5

Add postage.

BOTTLE CAPS



Bottle Caps—Stock print same as shown in cut. No lift. Packed in tubes of 500.

500	\$0.35
1M	.60
5M	2.90
10M	5.50
25M	12.50

Thousand weigh $2\frac{1}{2}$ lbs. In tubes of 500. Add postage.

CAPS WITH LIFT

500	\$0.40	10M	\$ 6.50
1M	.70	25M	15.75
5M	3.35		

Weight per M, 3 lbs. Add postage.

CREAM CAPS—Same price as no lift milk bottle caps. Same weight. Same size tubes. Add postage.

BUTTERMILK CAPS—Per M., 60c. Weight, $2\frac{1}{2}$ lbs. per M. Add postage.

Ask for price on 50M with your imprint.

MILK BOTTLES

There are various grades of milk bottles on the market and, unfortunately, there are still some people who consider a milk bottle a milk bottle. It is economy to use only the best.

Half Pints, doz., 75c; $\frac{1}{2}$ gross, \$3.25; gross, \$6.00.

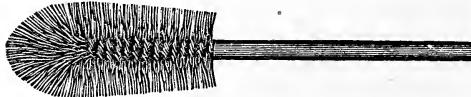
Pints, doz., \$1.00; $\frac{1}{2}$ gross, \$4.25; gross, \$8.25. Quarts, doz., \$1.25; $\frac{1}{2}$ gross, \$5.75; gross, \$11.25.

BRUSHES—Bottle Fillers



No. 828—For air tubes, white bristle, brush part $\frac{1}{2}$ -inch diameter, 3 inches long, length over all, 20 inches. Price, 25c.

BRUSHES—Bottles, Milk



No. 72—See description bowl brush No. 72. Price, 55c.



No. 73—See description bowl brush No. 73. Price, 60c.



No. 61—Stiff bristle body and tufts, brush part $3\frac{1}{4}$ inches wide, $2\frac{1}{4}$ inches thick, 7 inches long, hardwood handle, $\frac{1}{2}$ inch diameter; 10 inches long. Price, 45c.



No. 86—See description bowl brush No. 72, with exception of stiff bristle and better quality. Price, each, 70c.



No. 123—Stiff gray hair, brush part 3 inches diameter, tapered to 1 $\frac{1}{2}$ inches diameter at handle end; 6 $\frac{1}{2}$ inches long; hickory handle, $\frac{3}{4}$ inch diameter, 5 inches long, tapered to $\frac{1}{2}$ inch diameter at end. Price, 65c.



No. 124—Same brush as No. 123, with the single exception of handle being 9 inches long. Price, 65c.



No. 82—Extra stiff gray hair, brush part 3 inches diameter, 5 $\frac{1}{2}$ inches long, hickory handle, $\frac{5}{8}$ -inch diameter, 10 inches long. Price, 50c.

Bottles, Test



No. 835—For Babcock 10% milk bottles; white bristle; brush part 1 $\frac{1}{2}$ inches diameter, 3 inches long, length over all 11 $\frac{1}{2}$ inches. Price, 25c.



No. 833—For Babcock cream bottles; white bristle in body and tuft; brush part 1 $\frac{1}{2}$ inches diameter, $\frac{3}{4}$ in. long, length over all 10 inches. Price 25c.



No. 50—Gray horse hair body, gray tampico tufts, brush part 3 $\frac{1}{4}$ inches wide, 2 $\frac{1}{4}$ inches thick. Price, 50c.

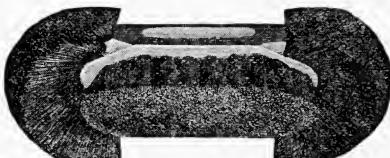
Bowl

No. 812—Small, black china bristle; brush part $\frac{5}{8}$ -inch diameter, 3 inches long; length over all 8 $\frac{1}{4}$ inches. See cut spout brush No. 812. Price, 25c.

No. 72—Black china bristle; brush part 2 $\frac{1}{4}$ inches diameter, 6 inches long; handle 9 inches. See cut milk bottle brush No. 72. Price, 60c.

No. 73—Black China Bristle; brush part 3 $\frac{1}{4}$ inches diameter, 6 inches long, hickory handle, $\frac{5}{8}$ -inch diameter; 9 inches long. See cut milk bottle brush No. 73. Price, 60c.

Can



No. 08—Stiff Palmetto Fibre; length on face, 10 inches; width on face, 5 inches. Price, 50c.



No. 416—Stiff Palmetto fibre, brush part 5 inches wide, 4 inches long; length over all, 10 inches. Price, 45c.

MILK COOLER



No. 286—Palmetto fibre, 2 rows wide, length of fibre 1 3/16 inches, curved handle, 14 $\frac{1}{2}$ inches long. Price, 35c.

Add 5c to all brushes if forwarded by mail.

Spout



No. 812—See description bowl brush No. 812. Price, 25c.



No. 815—Extra stiff black china bristle; brush part 5 inches by 2 inches diameter; length over all, 15 inches. Price, 30c.



No. 818—Black china bristle; brush part 1 $\frac{1}{2}$ inches diameter tapering to $\frac{1}{4}$ inch, 5 inches long; length over all, 12 inches. Price, 25c.

Hose Cleaning

No. 830—Gray Russian bristle, brush part 4 $\frac{1}{4}$ inches by $\frac{3}{8}$ inch. Length over all, 40 inches. Price, 35c.

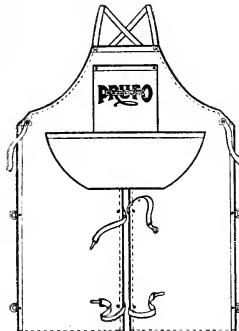
	$\frac{1}{2}$ Doz.	Doz.
All 25c brushes.....	\$1.35	\$2.40
All 30c brushes.....	1.65	3.00
All 35c brushes.....	1.95	3.60
All 40c brushes.....	2.10	4.00
All 45c brushes.....	2.40	4.50
All 50c brushes.....	2.75	5.00
All 55c brushes.....	3.00	5.40
All 60c brushes.....	3.30	6.00
All 70c brushes.....	3.90	7.20
All 75c brushes.....	4.20	7.80

Add 5c to all brushes if forwarded by mail.

Average mailing weight per doz., 4 lbs. Add postage.

Teamsters' Aprons

No. T-2—Reinforced front, top pocket, split legs, with two straps, snaps and rings, suspender straps riveted. Each, \$2.00.
Weight, 1 lb. Add postage.



Creamery Aprons

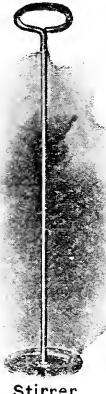
No. C-4—Creamery with patch, 8-oz. duck, suspender straps, 46-in. length, each, \$2.75.
Weight, 2 lbs. Add postage.

Stirrer and Sampler

Duro Sampler has saucer-shaped disc of steel firmly attached to wrought iron handle of sufficient length to reach bottom of 10-gallon can.

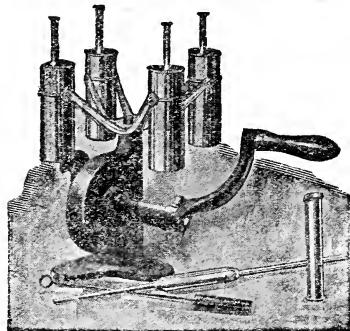
Duro Stirrer is the same as Duro sampler with the exception that there are five holes punched in bowl of stirrer to make stirring more effective.

Sampler and Stirrer, 65c each. Weight, 2 lbs. Add postage.



Stirrer

MILK TESTER



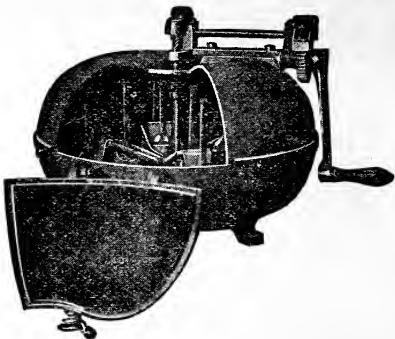
Many thousands of "Official" testers have been sold. It is used by dairymen, farmers, in hotels, restaurants and laboratories. It does accurate work, and with the instructions furnished anyone can make a perfect test. The most convenient and accurate of any low priced hand tester ever offered.

Made in two and four bottle sizes. Each tester includes a full set of bottles, pipette, acid measure, test bottle brush and full directions for making tests.

	Price	Weight
No. 1-4-bottle, milk only.....	\$8.00	16
No. 2 4-bottle, milk and cream....	8.75	18

Order by number. Add postage.

20th Century Milk Tester



This is an especially fine hand tester, and is built for dairies which are without the steam apparatus necessary to run a turbine tester. A speed of from 900 to 1,000 revolutions per minute can easily be obtained. The bottles are perfectly enclosed, doing away with danger from flying glass, acid, etc., should one of the bottles break. No glassware included, eight bottles. Price, \$15.00.

Acid Dippers

17.5 C. C.—Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.75.
8.8 C. C.—Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.75.

Acid Measure

17.5 C. C.—Each, 25c; $\frac{1}{2}$ doz., \$1.25; doz., \$2.00.
8.8 C. C.—Each, 25c; $\frac{1}{2}$ doz., \$1.25; doz., \$2.00.

Pipettes, Plain

17.6 C. C.—Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.50.

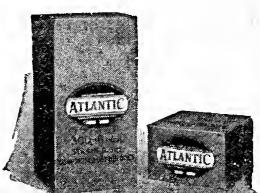
Test Bottles

Cream, 6-inch, 9-gram, graduated to 50%.
Cream, 9-inch, 9-gram, graduated to 50%.
Milk, 6-inch, 18-gram, graduated to 8%.
The above three test bottles. Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.50.
Skim Milk—Each, \$1.00.
We do not guarantee safe delivery of glassware.

Strainer Cloths

ABSORBENT COTTON—An approved cotton for filtering milk, prepared in rolls, neatly wrapped and sealed. One 1-lb. roll, \$1.00; add postage.

RED CROSS FILTER CLOTH—Is a specially woven cloth with the nap raised and is intended to take the place of ordinary cotton and strainer cloth, as it combines in itself the qualities of both. It is especially recommended for use in filter vats, and can strainers. 1-lb. rolls, 17 in. wide by 20 feet long, each, \$1.50; add postage. Squares, 7x7 inches, packed 50 in box. Price, \$1.50. Weight, 2 lbs. Add postage.



FILTER PADS OR COTTON DISCS

Put up in cartons containing 300. Not less than carton sold. Price, \$2.00. Weight 2 lbs. Add postage.

Parchment Butter Wrappers

8x11—Plain.....100, 25c; 500, \$1.15; 1000, \$2.00
Printing name and address additional: 500, \$2.25; 1,000, \$3.00; 1,500, \$3.25. Not less than 500 printed.

Weight, per thousand, 7 lbs.; add postage.

Milk Stools

No. 96W has reinforced wood top, while No. 96S has pressed steel top. Very comfortable and will not tip.

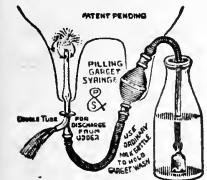
Price, \$1.50.
Weight, 4 lbs.
Add postage.



CATTLE INSTRUMENTS



CATTLE TROCAR—Will promptly and safely relieve bloat. Every owner of cattle should have one on hand. Easy to use. Price, \$1.50; postpaid, \$1.60.

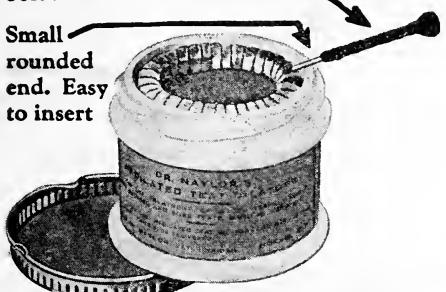


germs and other impure matters to escape from the udder.

Pilling Garget Syringe Outfit Consists of Pilling Garget Syringe, Pilling Remedy (30 treatments), Pilling Animal Soap. Price, \$4.00; postpaid, \$4.10.

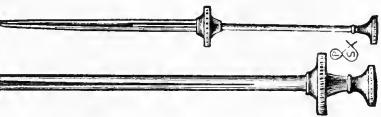
Soft Absorbent Texture

Small rounded end. Easy to insert



MEDICATED TEAT DILATORS—Dr. Naylor's Medicated Teat Dilators should be used right at the beginning of the trouble. For hard bunches and obstructions—do not resort to the knife. The dilators used right at the beginning of the trouble will absorb the obstruction. Severe cases or cases of long standing, when it is necessary to cut the teat, use Dr. Naylor's dilators to keep the teat open, until completely healed.

Never use a dilator but once. Dr. Naylor's dilators are sterilized and packed in Medicated Ointment. Each, \$1.00; postpaid, \$1.10.



TEAT DILATOR—A finely made instrument, dilates without cutting. Nothing better made for this purpose. Price, \$1.50; postpaid, \$1.60.



HARD RUBBER TEAT PLUG

Especially designed for two purposes: First, to prevent dropping of milk

In cows where there is relaxation of the little muscles at the end of the teat and consequent leakage of milk; and, secondly, to dilate the canal of the teat above the muscle in cases where hard milking is due to the contraction of this part of the canal. Price, 65c; postpaid, 70c.



MILKING TUBE—Plain, plated 3 inches. Price, 40c; postpaid, 45c; 4 inches, price, 50c; postpaid, 55c.



MILKING TUBE—Self-retaining; 3 inches, plated. Price, 55c; postpaid, 60c. 4 inches, 65c; postpaid, 70c.



TEAT EXPANDERS—Of metal, nickel-plated, is intended to expand and enlarge the opening of hard-milking teats. Also at the same time, it expands the milk canal; it is considered the best method of treating hard milkers. Easy to use. Price, 50c; postpaid, 55c.



LEAD PROBE—For enlarging opening in the cow's teats. 25c; postpaid, 30c.



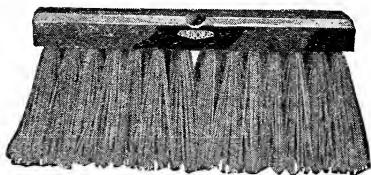
The Pilling Teat Opener is simply used as a reamer or dilator to pass the obstruction. It does not cut the obstruction. It is highly recommended by veterinary surgeons, dairymen and stock breeders, who have successfully used it for years. Price, 75c; postpaid, 80c.



MILK FEVER OUTFIT—Is made according to specifications described in Farmers' Bulletin 45, issued by the Bureau of Animal Industry, U. S. Department of Agriculture, except the rubber bulb. As it rots easily, this is replaced by a patented metal pump which will last a very long time.

Milk Fever Outfit, Metal Pump and Regulator Tube, \$3.50; postpaid, \$3.60.

Stable Brooms

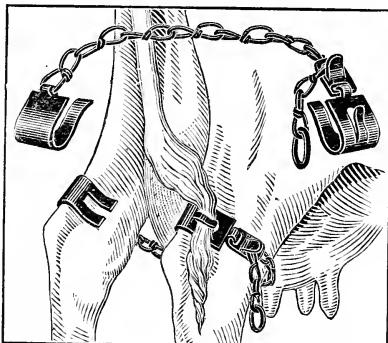


Bamboo 14x3 inches, 4 rows wide. Length of fibre 7 inches. Price, \$1.00. Weight, 5 lbs. Add postage.

Bass, 14x3 inches, 4 rows wide. Length of fibre, 5 1/4 inches. Price, \$1.25. Weight, 5 lbs. Add postage.

Handles not included in foregoing quotations. Price of handle, 25c. Weight 1 lb. Add postage.

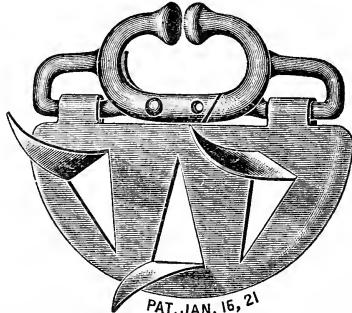
Anti Cow Kicker



So-Boss Cow Hobble and Tail Holder fits snugly over the tendons of cow's hind legs and is readily drawn into holding position by drawing chain through lock to any desired tension. Automatically locks itself in any position when free end of chain is dropped.

Chain is approximately 22 inches long and has ring attached to free end. Price, 50c. Weight, 2 lbs. Add postage.

Calf Weaner

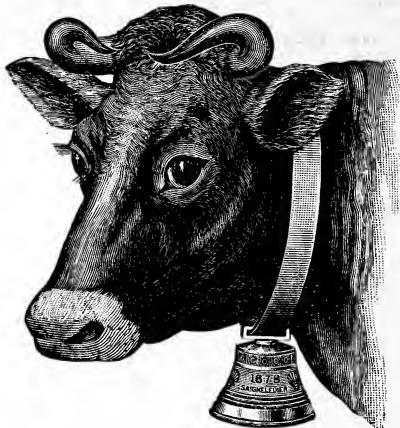


A perfect, humane and effective device. The hinge construction of this article allows the calf and cow to graze in the same pasture, yet effectually prevents sucking. It is easily applied. Once used always used.

Calf size, 60c; postpaid, 65c.

Cow size, 80c; postpaid, 85c.

Bells



LONG DISTANCE COW BELLS—Made from one piece of metal, no riveting. Smooth, good tone.

Size	Price
No. 11—3 1/2 x 2 5/8 x 3 3/8 in. high	35c
No. 13—4 x 3 3/8 x 4 in. high	45c

Swiss Cow Bells

No. 1—Bell diameter, 3 in.	65c
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Sheep Bells

Cast malleable iron loop, copper plated. Substantial. Will not crack.

No. 9—2 1/2 x 2-inch	30c
Add 10c to each bell for postage.	

Cow Bell Straps

Length 3 feet, width 1 1/4 inch	65c
Sheep Bell Straps	35c

PUNCHES

Ear Label Punch



This punch is made for inserting the labels only. It is necessary to cut hole in ear and also to seal labels.

Sheep size. Price, \$1.50; postpaid, \$1.60.

Cattle size. Price, \$1.75; postpaid, \$1.85.

Combined Punch and Plier



This combined punch and pliers are especially made for adjusting the buttons. The cutter makes the necessary hole, and the nipples seal the button.

Each, \$1.50; postpaid, \$1.60.

Ear Tags



Sheep and Hogs. Cattle.

	Sheep and Hogs. Cattle.
25 name and number.....	\$1.00 \$1.10
50 name and number.....	1.50 1.75
100 name and number.....	2.00 2.50
500 name and number.....	8.50 11.00
25 name only or number only.....	.90 1.00
50 name only or number only.....	1.25 1.50
100 name only or number only.....	1.50 1.75
500 name only or number only.....	6.25 8.50

Name can be put on the one side, numbers on the other. Not more than 10 large size letters can be put on hog or sheep sizes, or 15 on cattle. Mailing weight, 100 sheep size, 1 lb.; 100 cattle, 3 lbs. Add 5c per 100 or less number for postage.

Ideal Ear Buttons

Are made of pure hardened aluminum, consisting of two parts or sleeves, thus giving an absolute seal that will not become loose. Name and number can be put on without additional cost.

25, \$1.50; 50, \$2.00; 100, \$3.50; 500, \$15.25.

Add 5c per 100 or less number for postage.

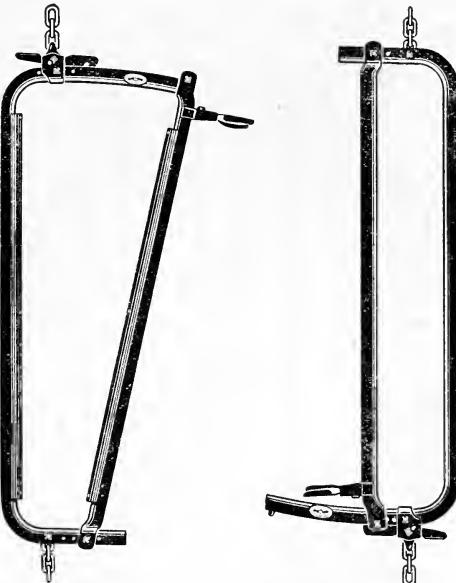


Cow Pokes

The special grade of band steel used has a rounded edge and makes a very strong yet light poke. Pokes do not interfere with the animal when feeding, grazing, drinking or lying down and will not chafe the neck.

The Fence Guards or Forks are very strong and long enough to properly engage in any kind of fence, including poles or bars. The width is $6\frac{1}{2}$ in., which is the standard width used by the stanchion manufacturers to day. They are 33 in. long. The strands in a number of barbed wire fences are 30 in. apart and pokes are long enough to prevent the animal from going through such a fence.

Price, 75c. Weight 3 lbs. Add postage.



No. 757W

No. 757W—Frame of $1\frac{1}{4} \times 1\frac{1}{4} \times 3/16$ in. "U" steel. All pressed steel fittings. Combination gravity and spring lock. Adjustable from a five inch to an eight inch neck space. Length of fork adjustable. Hard maple woodlinings. Weight 22 pounds. Price, \$3.50.

No. 757—This stanchion is exactly the same as the No. 757-W, shown at the left except that it is not woodlined. Its neck space is adjustable from six to nine inches. Gray enamel finish. Weight 21 pounds. Price, \$3.00.

BRONZE BULL RING



Is made of a special material of hardest and toughest texture, giving a very high and smooth finish. A quality product made to meet the demand of stockmen who require something superior to the ordinary ring. The sharp smooth point cuts a clean hole. Size $2\frac{7}{8} \times \frac{3}{8}$ inches.

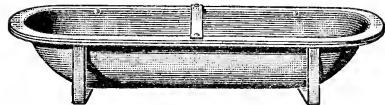
Price, \$1.75; postpaid, \$1.80. Large size, \$2.25; postpaid, \$2.30.

Bull Staff

Constructed of $1\frac{1}{16}$ -inch extra heavy steel pipe with malleable lock hook. Can be operated from two places.

To hook the nose ring into the staff, pull on the slide ring near the head of staff, which will open rock bolt. To release staff from ring, pull on the snap ring in handle of staff. Latch bolt held in place by strong spring. Length 4 feet 9 inches. Weight, 8 lbs. Price, \$4.50. Add postage.

Seamless Hog Trough

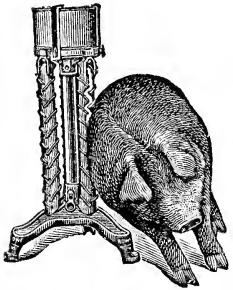


No seams to rust, no corners to accumulate dirt, with smooth round easily cleaned bottom. Legs snap in place; are rigid and have four holes for securely fastening to the floor if desired.

Length over all 26 inches. Inside 24 inches. Width over all 12 inches, inside 10 inches. Depth over all 5 inches, inside 4½ inches. Holds three gallons.

Price, \$1.50. Weight, 6 lbs. Add postage.

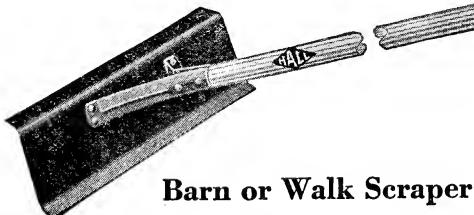
Hog Oiler



Rowe's "New Idea" Hog Oiler is the only one that has no valves or other receptacles in which dirt might collect and interfere with the operation of the Oiler. There is absolutely nothing about it to leak or get out of order.

The Rowe Oiler can't clog or waste oil because it has no valves, no heavy rolling cylinder to stick, and if a hog lies down against the bar he lifts the spoon just once, gets

only one small application of oil and doesn't cause all the oil to run out of the tank, as is the case where oilers depend on the opening and closing of valves. Price, \$8.50.

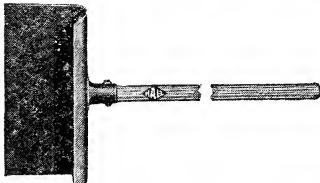


Barn or Walk Scraper

This scraper can be used for cleaning barn floors, alleys and gutters, also for removing snow from sidewalks. Heavy steel blade, 6½ inches high, 13 inches wide. Handle, 58 inches long. Length over all, 64 inches. A push or pull cleaner.

Price, \$1.50; mailing weight, 7 lbs. Add postage.

Curved Barn and Walk Cleaner



Curved blade made of high carbon shovel steel; 4 ft. wood handle. Length over all, 64 inches. Width, 13 inches.

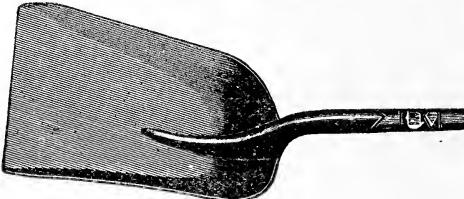
Price, \$1.10; mailing weight, 7 lbs. Add postage.

Pig Forceps



Each \$3.00, Postpaid.

Barn Scoop



For every job around the barn. This scoop is made of a special alloy steel—specially heat treated to insure hardness of the right degree. The deep bowl is 10½ in. by 15 in., and has a Hoover Velvet finish. The length over all is 63 in. Weight 5 pounds. Price, \$2.25.

Stock Feed

The quotation made on stock feed are present market values. These are all subject to change. All feeds will be shipped at prices prevailing when goods are shipped. Write for prices in quantities.

Oil Meal

The advantages of feeding Oil Meal are well known.

Oil Meal \$3.25

Write for prices, stating amount wanted. Prices subject to change.



From practical tests it has been fully demonstrated that as good calves can be raised on Ryde's Cream Calf Meal as can be raised on milk, and by using Ryde's Cream Calf Meal they can be raised much cheaper. This is one of the richest and best substitutes for milk on the market, as it contains everything needed to make calves grow and keep them healthy. 100 pounds makes 100 gallons perfect milk substitute. 25-lb. bag, \$1.50; 50-lb. bag, \$2.75; 100-lb. bag, \$5.50. Add postage.

STOCK REMEDIES



Conkey's

FLY KNOCKER—All the time your stock is pestered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide; odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grubs.

Qt., 80c; 2 qts., \$1.35; gal., \$2.00.
Not mailable.

Bag Balm

A soothing penetrating salve for all affections of the bag. Price, 60c. Weight, 1 lb. Add postage.

Garget Cure

This is undoubtedly the best article on the market for the purpose for which it is used. Price, 65c. Weight, 2 lbs. Add postage.

Kow Kare

Is different from any other cow remedy. Is specially recommended for barrenness, scours, milk fever, also for abortion and the removal of retained afterbirth, etc. It acts as a tonic for the system, renewing vitality and restoring appetite. It thus increases milk production by promoting better health and vigor. Per can, 65c and \$1.25. Mailing weight, 2 and 4 lbs. Add postage.

Udder Health



A penetrating ointment for garget, caked udder, hard or sore teats, external injuries, harness sores, sprains, etc. It penetrates, soothes, softens, does not gum. Made by General Laboratories, Madison, Wisconsin, manufacturers of the well known B-K. 8-oz. package, 75c. Postpaid, 85c.

Hog Remedies

VAPO-SPRAY is a compound of oils of pine tar, coal tar and eucalyptus, and when sprayed around the heads of hogs or in the bedding produces a mist that is breathed by the animals, therefore reaching the lower respiratory

passages. It is used in addition to Flu-Koff in severe cases.

Quart can	\$.75	Gallon can	\$2.25
½ gallon can	1.25	5-gallon can	9.00
Not mailable.			

FLU-KOFF EMULSION—It is common knowledge among hog raisers that a fat hog will frequently lose 20% of its actual weight in five days after contracting Bronchitis, sometimes called "Flu."

Flu-Koff Emulsion is a sensible and scientifically prepared medicine for the treatment of coughs, colds, Bronchitis and respiratory troubles in hogs. It not only has a powerful tendency to allay cough but also contains ingredients which act to reduce temperature.

Give in water, thick slop, wet mash or soaked grain (soaked oats preferred). One ounce is sufficient for one dose for about eight hogs. Usually two or three days' treatment is sufficient to relieve the most stubborn case.

12-oz. bottle	\$1.25	½-gallon bottle	\$3.75
32-oz. bottle	2.25	1-gallon bottle	7.00
Not mailable.			

Animal Dip

"Black Leaf 40" controls sheep ticks and lice on sheep, cattle and hogs; also sheep and cattle scab, and is permitted by the U. S. Bureau of Animal Industry in official dippings of sheep and cattle for scab.

One pound of "Black Leaf 40" will produce 96 gallons (U. S. measure) of official strength dipping solution for sheep and cattle scab. Against lice on sheep, goats, hogs and the sheep tick, one pound of "Black Leaf 40" is used to 72 gallons (U. S.) of water. Against lice on cattle one pound of "Black Leaf 40" makes 80 gallons (U. S.) of effective dipping solution.

1 lb.	\$2.50	5 lbs.	\$7.00
2 lbs.	3.75	10 lbs.	11.85
Not mailable.			

Zenoleum

SHEEP SCAB—One part of Zenoleum to seventy parts of water heated to 100 to 110 degrees Fahrenheit. Hold the sheep in this bath for two minutes, rubbing the scabby parts with some rough substance to insure reaching the parasite.

SHEEP TICKS—To 12 gallons of water add 1 pint of Zenoleum. This is equal to one gallon of Zenoleum to one hundred gallons of water. Dip the sheep soon after mixing, and keep them in the water a minute.

LICE ON SHEEP—Dip the sheep, making a solution of one part Zenoleum to fifty parts of water. Repeat in six to eight days.

FLY AND MAGGOTS—Use equal parts Zenoleum and water, and in extreme cases, full strength Zenoleum.

½ gallon	\$1.30	Gallon	\$2.00
Not mailable.			



B-K is a very powerful disinfectant but not a poison. It is much stronger than coal tar disinfectants. It is cheaper to use than other disinfectants because of its great strength and the amount of dilution that can be used. It is odorless and colorless. Very largely used in stables and by our large dairies and creameries. Also by hotels, restaurants, etc. 4-oz. bottle, 35c; 10-oz. bottle, 60c; 32-oz. bottle, \$1.25; 1 gal., \$3.00; 5 gallons, \$12.50. Not mailable.

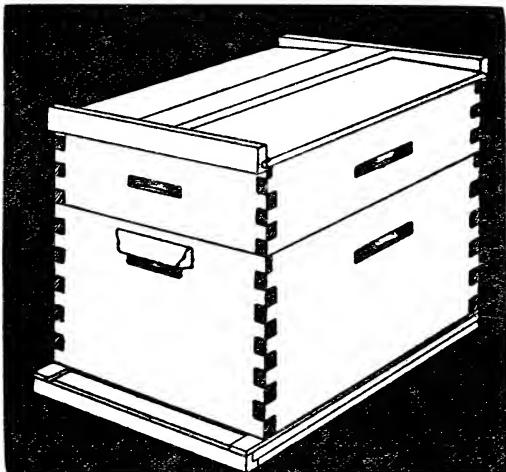
Wyandotte



This is the great cleaner and cleanser used by nearly all dairymen and creameries. This is specially prepared for the purpose for which it is used, and the best recommendation it has comes from those who have used it and compared results obtained from the use of this and other similar preparations. It is conceded to be the best preparation of its kind manufactured. 5-lb. bag, 50c; 80-lb. kegs, \$5.75; 280-lb. barrels, \$16.52.

Add postage on the 5-lb. bags.
Prices subject to change.

Bee Supplies



DOVETAILED HIVES—The dovetailed hive is now the leading hive, as it contains many of the most desirable features of the various hives for the rapid handling of bees, and is one of the cheapest and best hives manufactured.

DESCRIPTION—The body is $\frac{1}{8}$ inch thick, and is fitted with metal rivets of an improved style. Outside of body is $13\frac{1}{2} \times 20$ inches, and $9\frac{1}{2}$ inches long. The body holds eight Hoffman frames, L size, and a division board. The frames hang below the top edge of the hive, so that there is a bee space above them, but the bottoms of the frames are flush with the bottom edges of hives, the bee space being made by the projection of the sides and can be enlarged or decreased by investing bottom board. The bottom is 14×21 inches. The cover is made with grooved cleats at each end to prevent warping. The supers are the same size as the body of

hive, but only half the depth, so that when two are put together they make a full-depth body. The inside width of the body is $12\frac{1}{2}$ inches, giving room for eight frames and a division board. There are objections to using sections other than $4\frac{1}{4} \times 4\frac{1}{4}$, as they require special sized shipping cases and special sized cartons.

Complete hive consists of 1 body, 1 super, 1 bottom board, 1 cover, 8 Hoffman brood frames, 2 wedges for super, 6 section holders, 6 slotted separators.

EIGHT-FRAME HIVE

	Wt. Nailed 5-K. D.	Wt. Lbs.	Wt. Nailed 5-K. D.	Wt. Lbs.
1 Story	\$2.85	\$12.25	25	115
$1\frac{1}{2}$ Story	4.00	17.50	31	150
Bodies Empty .....	.85	3.75	9	40
Hive Covers .....	.85	3.75	9	40
Bottom Boards .....	.85	3.75	8	35

No division boards in hives. Add postage.

TEN-FRAME HIVE

	Wt. Nailed 5-K. D.	Wt. Lbs.	Wt. Nailed 5-K. D.	Wt. Lbs.
1 Story	\$3.25	\$13.75	32	150
$1\frac{1}{2}$ Story	4.50	20.50	42	200
Bodies Empty .....	.95	4.10	12	55
Hive Covers .....	.95	4.10	12	55
Bottom Boards .....	.95	4.10	9	50

No division boards in hives. Add postage.

SUPER-EIGHT FRAME HIVE

	Wt. Nailed 5-K. D.	Wt. Lbs.	Wt. Nailed 5-K. D.	Wt. Lbs.
Super Comb Honey \$1.15	\$5.00	9	40	
Super Extracting 1.15	5.25	10	45	
Super Empty				
Comb Honey .... .65	2.25	9	40	

SUPER-TEN FRAME HIVE

	Wt. Nailed 5-K. D.	Wt. Lbs.	Wt. Nailed 5-K. D.	Wt. Lbs.
Super Comb Honey \$1.20	\$5.25	11	50	
Super Extracting 1.30	5.50	11	50	
Super Empty				
Comb Honey .... .65	2.75	6	25	

No division boards in Supers. Add postage on all bee supplies.

BEE HIVE EXTRAS

	Each	50	100
Division Boards for Brood Chamber	15c	\$6.75	\$13.00
Weight, each, 1 lb. Add postage.			
Division Boards for Deep Supers	15c	\$6.00	\$11.50
Weight, each, 1 lb. Add postage.			
Section Holders, slotted.....	6c	\$2.50	\$4.50
Weight, 100, 35 lbs. Add postage.			
Slotted Separators	4c	\$1.25	\$2.00
Weight, 100, 8 lbs. Add postage.			
Super Followers	10c	\$3.00	\$5.50
Super Springs	3c	.75	1.25
Spring Steel Hive Tool.....	60c	postpaid	.70

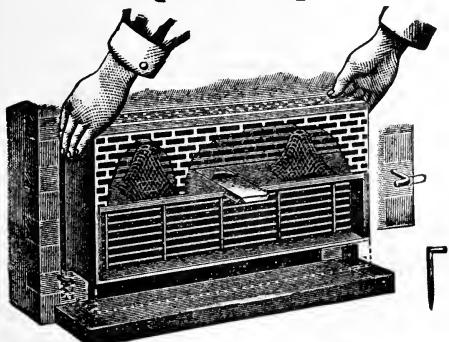
Brood Frames

The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames. The top bar is made with a beveled strip which holds the foundation in place, perfectly straight and exactly in center to top bar. It seems to combine in itself nearly all the good features and for a hanging frame it is the best self-spacer we know of. It economizes labor in that it can be handled in groups of three or four;

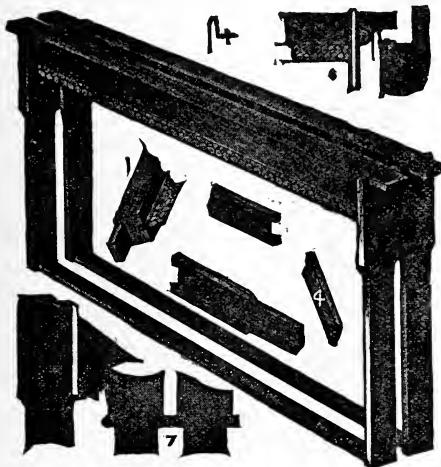
and any particular frame can be removed without thumbing over nearly all the other frames in the hive to get room. Price, each, 8c; 50, \$3.00; 100, \$5.50. Weight, per 100, 55 lbs. Add postage.

Shallow Extracting Frames: Price, each, 8c; 50, \$2.75; 100, \$5.00. Weight of 100, 28 lbs. Add postage. Metal Spacers only, 100, \$1.25.

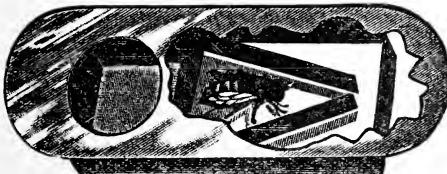
Alley's Combined Drone and Queen Trap



A perfect non-swarming arrangement. Weight 1 lb. Each, 8 frame, \$1.00; 10 frame, \$1.10; add postage.



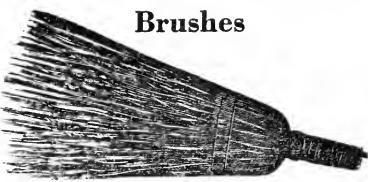
Bee Escapes



Porter

No apiarist can afford to be without bee-escapes. In taking off honey it is the greatest labor saving device that has been introduced in late years. It avoids shaking heavy spurs to get

the bees out. Single, 25c; single, with board, 65c; double, 35c; double with board, 75c. Add 5c for postage. When ordering state if wanted for a 8 or 10 frame hive.



Cogshall's

BRISTLE—This is a strong, durable brush, made of black bristles. Price, 50c; postpaid, 55c.

COGSHALL'S—This is a sort of whisk broom especially adapted and made for brushing bees. The strands are thinned out and longer, so to give a soft pliable sweep to the combs. 30c; postpaid, 35c.

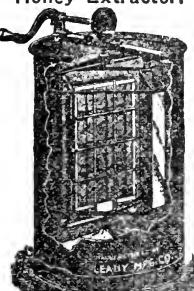
Comb Foundation

Size of Sheet.	No. Per	Per	Per	Per
	to lb.	lb.	5-lb.	10-lb.
Medium Brood, 7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	7	\$0.75	\$3.65	\$7.00
Light Brood, 7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	9	.80	3.90	7.50
Thin Super, 3 $\frac{3}{4}$ x 15 $\frac{1}{2}$	28	.90	4.35	8.50
Ext. Thin Super, 3 $\frac{3}{4}$ x 15 $\frac{1}{2}$	39	.95	4.65	9.00

Add postage.

Extractors

Cowan's Rapid Reversible Honey Extractor.



Two-frame Cowan's Reversible for Regulating Frames. Price, \$37.50.

If there is any one thing that is more essential to the successful manipulation of bees, aside from a good bee smoker, that one thing is a good honey extractor. If you have but ten colonies of bees it will pay you to have an extractor. Indeed, it would pay for itself in one good season, as oftentimes the brood combs become so filled with honey that the queen is crowded for room, and this honey should be extracted, and could be sold in the extracted form or used in feeding back for completing partly filled sections. Made of best steel.

Gloves



Gloves for protection of the hands and wrists are almost indispensable. Canvas with sleeves, medium and large, \$1.25; postpaid, \$1.35.

Honey Knife



Price, \$1.50; postpaid, \$1.60.

Bee Books

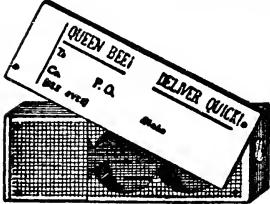
The Amateur Bee Keeper, by Prof. J. W. Rouse, 80 pages, 50c; postpaid, 55c.

Beeswax

Put up in pound cakes.
Price, 80c; postpaid, 90c.

Queen Cages

The cover, to insure prompt delivery, is printed in exact fac simile of cut. On the reverse side are printed directions for introducing Queens, Benton, 15c each.



Queen Excluding Zins

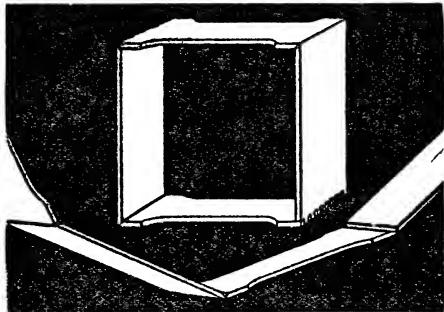
This is used between the upper and lower stories, to prevent the queen going up above. It is also used in making entrance guards, queen and drone traps, etc.

For 8-frame hive, unbound, 12x19, 50c.
For 8-frame hive, wooden bound, 13 $\frac{3}{4}$ x20, 60c.
For 10-frame hive, unbound, 14x19, 55c.
For 10-frame hive, wooden bound, 16x20, 65c.
8-frame, 7-wire-and-wood, 13 $\frac{3}{4}$ x20. Price, 90c.
10-frame, 7 wire-and-wood, 16 $\frac{1}{4}$ x20. Price, \$1.00.

Add 10c each for postage.

Owing to the uncertainty of the price of zinc, prices quoted for all items which include zinc in their make-up are not guaranteed and items will only be sent out at prices prevailing when order is filled.

Section Honey Boxes



SECTIONS—Are made of the choicest white basswood lumber, and all are perfect in finish and free from defects. They are not all snow-white, but vary from that to light cream colors. Price, per 25, 50c; 100, \$1.75; 500, \$7.50; 1000, \$14.00. Weight 100, 6 lbs. Add postage.

Veils

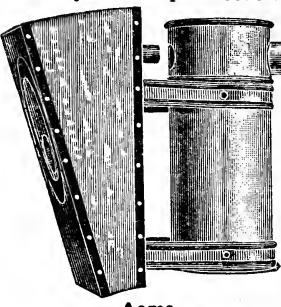
A great necessity and very cheap. Cotton; silk face, \$1.25; postpaid, \$1.30.

Globe—Has five bars that will keep veil away from head. Price, \$1.60; postpaid, \$1.65.



Smokers

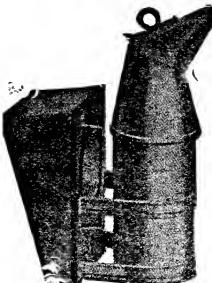
Every bee keeper needs a smoker.



Acme.

Acme—This is undoubtedly the best Cold Blast Smoker on the market. It has no tube in the fire box to clog. It throws a large volume of smoke at RIGHT angles to the fire box without a curved nozzle to lessen the blast. In fact, it is the perfection of smokers.

Price, \$1.00.
Weight, 2 lbs.
Add postage.



Higginsville

This smoker is, as its name implies, strictly a Higginsville product. It is a hot blast, and has a 3 $\frac{1}{4}$ -inch fire box, and the nozzle is detachable to admit of filling or cleaning. It has as strong a blast as any smoker made.

Price, \$1.25. Weight, 2 lbs. Add postage.



BINGHAM DOCTOR—This is a strong, well-made smoker; does not clog up and will burn any fuel. This smoker resembles the Higginsville very much in appearance. In the Higginsville the nozzle or detachable snout fits over the outside of the smoker while in the Bingham it fits on the inside. In the Higginsville the nozzle is not attached to the smoker, while in the Bingham the nozzle is attached by means of an open hinge, but can be removed at will. Price, \$1.50. Weight, 2 lbs.; add postage.

Wire

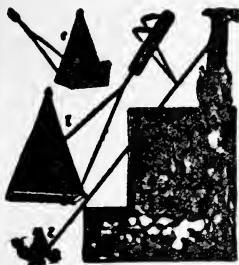
No. 30 Tinned Wire seems to be the most suitable of any for wiring frames.

1/4-lb. spools, each, 25c.
1/2-lb. spools, each, 40c.
1-lb. spools, each, 65c.
Postpaid, 30c, 45c, 75c.
Add postage.

Wire Imbedder



The latest spur wire imbedder is a most decided improvement over the old one. The teeth are wider and grooved in the direction of the circumference midway across front of teeth, so that the wheel will easily follow the wire. 50c; by mail, 55c.



Swarm Catcher

This swarm catcher is the best article of its kind on the market and it will be found a valuable addition to the appliances of the apiary. Without pole. Price, \$2.50. Weight, 3 lbs.; add postage.

Wax Tube Fastener



Van Deusen

For fastening the foundation sheets to thin top-bars there is nothing better than the Van Deusen wax tubes. It is simply a brass tube half an inch in diameter, six inches long and tapering. This is filled with hot wax and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. 50c; by mail, 55c.

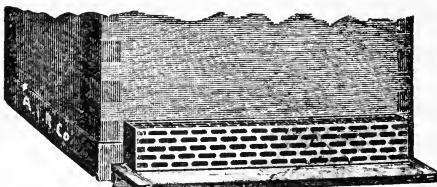
Foundation Fasteners



Parkers

The Parker Fastener is a cheap machine for fastening starters. With a little practice it can be made to work very satisfactorily. Price, 50c; post-paid, 60c.

Entrance Guards



These are to admit workers, and to exclude drones. After the drones are all out, fix guards over the entrance and at night the drones can be destroyed. For 8 and 10 frame hives. 30c; by mail, 35c.

Feeding

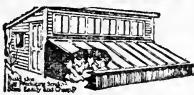
Bees are fed for two purposes: to stimulate brood-rearing or to supply them with necessary stores for winter. For stimulating a pint to a pint and a half of syrup daily either at the entrance at night or inside the hive should be given until the required amount of brood is reared. In preparing for winter it is better to give the necessary stores all at one feed. The feeder should be filled with syrup by mixing together granulated sugar and water in equal proportions by measure and stirring or heating until thoroughly dissolved.

Simplicity

The Simplicity may be placed at the entrance at night, over the brood frames, by placing on top of the hive or in the brood-nest itself, if a couple of frames are removed. 25c; by mail, 30c.

GENUINE WEATHERPROOF UNBREAKABLE FLEX-O-GLASS

Pat. Pend. T.M. Reg.



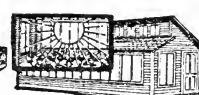
Extra eggs or chicks saved
pup for this Flex-O-Glass
Scratch Shed in a few days.



Ideal for enclosing
porches, health rooms,
covering screen doors, etc.



Flex-O-Glass hotbeds
grow plants quicker
and much stronger.



Easily nailed on barn,
chickencoop, hog house
and garage windows.

Price—Less than ten yards, 35c per yard; 10 yards and over, 32c per yard.

For description of FLEX-O-GLASS
See page 103.

QUANTITY OF SEED TO ACRE

Alfalfa	8 to 15 lbs.	Grass—Rye, Oat Grass, Fescue Grasses	30 lbs.
Artichoke, 1 oz. to 500 plants	6 oz.	Grass—Orchard	20 to 30 lbs.
Asparagus, 1 oz. to 500 plants	1 lb.	Horse Radish Roots	15,000 to 20,000
Barley	60 to 75 lbs.	Kale, 1 oz. to 150 feet of drill	1 lb.
Beans, Dwarf, 1 lb. to 100 feet of drill	50 lbs.	Kale, thousand headed	1 lb.
Beans, Tall, 1 lb. to 150 hills	25 lbs.	Khol Rabi, 1 oz. to 150 feet of drill	2 lbs.
Beet, garden, 1 oz. to 50 feet of drill	5 lbs.	Kaffir Corn	6 to 8 lbs.
Beet, sugar, 1 oz. to 50 feet of drill	5 lbs.	Leek, 1 oz. to 100 feet of drill	4 lbs.
Beet, Mangel Wurzel, 1 oz. 50 ft. drill	5 lbs.	Lettuce, 1 oz. to 150 feet of drill	3 lbs.
Broccoli, 1 oz. to 2,000 plants	4 oz.	Melon, Musk, 1 oz. to 60 hills	2 to 3 lbs.
Brussels Sprouts, 1 oz. to 2,000 plants	4 oz.	Melon, Water, 1 oz. to 30 hills	3 to 4 lbs.
Broom Corn	12 lbs.	Millet	30 lbs.
Buckwheat	45 lbs.	Nasturtium, 1 oz. to 50 feet of drill	15 lbs.
Cabbage, 1 oz. to 1,500 plants	14 lbs.	Oats	75 lbs.
Carrot, 1 oz. to 125 feet of drill	3 lbs.	Okra, 1 oz. to 100 feet of drill	8 lbs.
Cauliflower, 1 oz. to 2,000 plants	3 oz.	Onions, 1 oz. to 100 feet of drill	4 to 8 lbs.
Celery, 1 oz. to 5,000 plants	1 lb.	Onions, for sets	30 to 40 lbs.
Chicory, 1 oz. to 100 feet of drill	4 lbs.	Onion Sets, 1 lb. to 75 feet of drill	400 lbs.
Clover, Alsike	6 to 15 lbs.	Parsley, 1 oz. to 300 feet of drill	3 lbs.
Clover, White	6 to 10 lbs.	Parsnips, 1 oz. to 200 feet of drill	6 lbs.
Clover, White, for lawns	25 to 100 lbs.	Peas, Garden, 1 lb. to 50 feet of drill	60 lbs.
Clover, Red and Crimson	12 to 20 lbs.	Peas, Field	150 lbs.
Clover, sweet, hulled	15 lbs.	Pepper, 1 oz. to 100 plants	
Collards, 1 oz. to 2,000 plants	4 oz.	Potatoes	400 to 600 lbs.
Corn, Sweet, 1 lb. to 200 hills	8 to 12 lbs.	Pumpkin, 1 oz. to 30 hills	3 to 4 lbs.
Corn, field	8 to 12 lbs.	Radish, 1 oz. to 100 feet of drill	10 lbs.
Corn, fodder	8 to 20 lbs.	Rape, Dwarf Essex	5 to 10 lbs.
Corn, Pop	8 to 12 lbs.	Rutabagas, 1 oz. to 150 feet of drill	2 lbs.
Cress, 1 lb. to 100 feet of drill	1 lb.	Rye	60 to 80 lbs.
Cucumber, 1 oz. to 60 hills	2 to 3 lbs.	Salsify, 1 oz. to 50 feet of drill	8 lbs.
Egg Plant, 1 oz. to 2,000 plants	4 oz.	Spinach, 1 oz. to 100 feet of drill	8 lbs.
Endive, 1 oz. to 100 feet of drill	4 oz.	Squash, Summer, 1 oz. to 25 hills	3 lbs.
Flax, for seed, 30 lbs. to acre; for fibre	50 lbs.	Squash, Winter, 1 oz. to 12 hills	4 lbs.
Grass, Brome	25 lbs.	Sugar Cane	10 lbs.
Grass, lawn, 1 lb. to 300 sq. ft.	30 lbs.	Sunflower	8 lbs.
Grass, Kentucky Blue, Canadian Blue	20 lbs.	Tomato, 1 oz. to 2,000 plants	4 oz.
Grass, Sudan	10 lbs.	Turnip, 1 oz. to 150 feet of drill	2 lbs.
Grass—Timothy	6 to 12 lbs.	Vetches, Spring	60 to 90 lbs.
Grass—Red Top	10 to 15 lbs.	Vetches, Winter	30 to 60 lbs.
		Wheat	60 to 80 lbs.

WEIGHT OF SEED PER BUSHEL

Clovers.		Barley, Hulled	60	Red Top, Hulled	36	Liberty	50
Alfalfa	60	Corn, Ear	70	Rye, English	25	Siberian	50
Alsike	60	Corn, Shelled	56	Rye, Italian	22	White Wonder	50
Crimson	60	Oats	33	Sudan	22	Miscellaneous:	
Red	60	Rye	56	Tall Meadow Oat	14	Buckwheat	50-48
Sweet, Hulled	60	Wheat	60	Timothy	45	Flax	56
Sweet, Unhulled	40	Grasses:		Hog	50	Peas, Smooth	60
White	60	Blue	14	Hungarian	48	Peas, Wrinkled	56
Grains:		Brome	14	Japanese	40	Onion Sets, Bot-	
Barley	48	Orchard	14			toms	82

USUAL DISTANCE FOR PLANTING

Bushes:		Roots:		Onions, drills, 2 to 3 ft.
Blackberries, 3x4 ft.		Asparagus, 2x3 ft.		Parsnips, drills, 2 to 3 ft.
“ Mammoth, 3x12 ft.		Potatoes, 18 in. by 3 ft.		Peas, drills, 2 to 3 ft.
Currants, 5x3 ft.		Rhubarb, 3x4 ft.		Peas, broadcast, acre, 150 lbs.
Dewberries, 8x4 ft.		Sweet Potatoes, 2x4 ft.		Pumpkins, 8x8 ft.
Gooseberries, 5x3 ft.		Seeds:		Radishes, drills, 1 to 2 ft.
Raspberries, 7x8 ft.		Beans, bush, drills, 3 ft.		Salsify, drills, 1 to 2 ft.
Plants:		Beans, pole, 3x3 ft.		Spinach, drills, 1 to 2 ft.
Cabbage, Early, 16x30 in.		Beets, table, drills, 2x2½ ft.		Squash, bush, 3x4 ft.
Cabbage, late, 24x30 in.		Beets, stock, drills, 2x3 ft.		Squash, running, 8x8 ft.
Cauliflower, 2x3 ft.		Carrots, drills, 2x2½ ft.		
Celery, 6 in. by 4 ft.		Corn, sweet, 2x3 ft.		
Egg Plant, 3x5 ft.		Corn, field, 2x3 ft.		
Peppers, 18 in. by 2½ ft.		Cucumbers, 4x4 ft.		
Tomatoes, 4x4 ft.		Lettuce, drills, 1x2 ft.		
Strawberries, hills, 1½x8 ft.		Melon, Musk, 5x5 ft.		
“ matted rows, 1x3 ft.		Melon, Water, 7x7 ft.		

NUMBER OF PLANTS TO ACRE

Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants
12x 1 in.	522,270	25x18 in.	15,520	36x36 in.	4,840	60x60 in.	1,745
12x 3 in.	174,240	30x 1 in.	209,088	42x12 in.	12,446	8x 1 ft.	5,445
12x12 in.	43,560	30x 6 in.	34,848	42x24 in.	6,223	2x 3 ft.	1,815
16x 1 in.	382,040	30x12 in.	17,424	42x36 in.	4,148	8x 8 ft.	680
18x 1 in.	343,480	30x16 in.	13,063	48x12 in.	10,890	10x 1 ft.	4,356
18x 3 in.	116,160	30x20 in.	10,454	48x18 in.	7,790	10x 6 ft.	726
18x12 in.	29,040	30x24 in.	8,712	48x24 in.	5,445	10x10 ft.	435
18x18 in.	19,360	30x30 in.	6,970	48x30 in.	4,356	12x 1 ft.	3,630
20x 1 in.	312,635	36x 3 in.	58,080	48x36 in.	3,630	12x 5 ft.	736
20x20 in.	15,681	36x12 in.	14,520	48x48 in.	2,723	12x12 ft.	302
24x24 in.	10,890	36x18 in.	9,680	60x36 in.	2,901	16x 1 ft.	2,722
24x 1 in.	261,360	36x24 in.	7,260	60x48 in.	2,178	16x16 ft.	170

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that corresponds to the distance you are away. Then note where the weight of your package is marked on the table of rates, on

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		Weight	Limit
1st Zone	\$0.07	\$0.01	70 lbs.
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3rd Zone	.08	.02	70 lbs.
4th Zone	.08	.04	50 lbs.
5th Zone	.09	.06	50 lbs.
6th Zone	.10	.08	50 lbs.
7th Zone	.12	.10	50 lbs.
8th Zone	.13	.12	50 lbs.

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*Study this picture. Note carefully the actual prices.
See the Giant Bantam pile is the largest, yet has
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SPOKANE, WASH.

1931